

Model PH61

Heat Treatment Shake Freezer

Operating Instructions



Complete this page for quick reference when service is required:

| Taylor Distributor: | | | | |
|----------------------|--------------------|----|-------|---|
| Address: | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Date of Installation | : | | | |
| Information found | d on the data labe | l: | | |
| Model Number: | | | | |
| Serial Number: | | | | |
| Electrical Specs: | Voltage | | Cycle | |
| | Phase | | | |
| Maximum Fuse Siz | ze: | | | A |
| Minimum Wire Am | pacity: | | | Α |

© August, 2007 Taylor All rights reserved. 048119-M



The word Taylor and the Crown design are registered trademarks in the United States of America and certain other countries.

Taylor Company a division of Carrier Commercial Refrigeration, Inc. 750 N. Blackhawk Blvd. Rockton, IL 61072



Table of Contents

| Section 1 | To the Installer | 1 |
|-------------|-------------------------------------|----|
| Installer S | Safety | 1 |
| Site Prepa | aration | 1 |
| Air Cooled | d Units | 1 |
| Water Co | nnections (Water Cooled Units Only) | 2 |
| | Connections | 2 |
| | otation | 3 |
| Refrigera | nt | 3 |
| Section 2 | To the Operator | 4 |
| Compress | sor Warranty Disclaimer | 5 |
| Section 3 | Safety | 6 |
| Section 4 | Operator Parts Identification | 8 |
| PH61 Exp | ploded View | 8 |
| Beater an | d Door Assembly | 10 |
| X57028-1 | 4 Pump A Mix Simplified | 12 |
| Accessori | es | 13 |
| X44127 E | Brush APackage-HT | 14 |
| Syrup Tar | nk | 15 |
| Section 5 | Important: To the Operator | 16 |
| Symbol D | efinitions | 16 |
| Power Sw | vitch | 17 |
| Liquid Cry | vstal Display | 17 |
| Indicator I | Lights | 17 |
| Reset Me | chanism | 17 |
| Operating | Screen Descriptions | 18 |
| Operator | Menu | 21 |

Model PH61 Table of Contents

Table of Contents - Page 2

| Section 6 | Operating Procedures | 25 |
|--|-------------------------------|--|
| Daily Clos Daily Ope Syrup Sys Closing P Draining F Brush Cle | nt Set Up | 25 36 39 41 45 45 48 49 |
| Section 7 | Important: Operator Checklist | 51 |
| Troublesh Regular N | eaning and Sanitizing | 51 51 51 52 |
| Section 8 | Troubleshooting Guide | 53 |
| Section 9 | Parts Replacement Schedule | 59 |
| Section 10 Wiring Dia | Parts List | 60 73 |

Note: Continuing research results in steady improvements; therefore, information in this manual is subject to change without notice.

© August, 2007 Taylor All rights reserved. 048119-M



The word Taylor and the Crown design are registered trademarks in the United States of America and certain other countries.

Taylor Company a division of Carrier Commercial Refrigeration, Inc. 750 N. Blackhawk Blvd. Rockton, IL 61072

Table of Contents Model PH61

Section 1

To the Installer

The following are general installation instructions. For complete installation details, please see the check out card.

This unit has many sharp edges that can cause severe injuries.

Installer Safety

In all areas of the world, equipment should be installed in accordance with existing local codes. Please contact your local authorities if you have any questions.

Care should be taken to ensure that all basic safety practices are followed during the installation and servicing activities related to the installation and service of Taylor equipment.

- Only authorized Taylor service personnel should perform installation and repairs on the equipment.
- Authorized service personnel should consult OSHA Standard 29CFRI910.147 or the applicable code of the local area for the industry standards on lockout/tagout procedures before beginning any installation or repairs.
- Authorized service personnel must ensure that the proper PPE is available and worn when required during installation and service.
- Authorized service personnel must remove all metal jewelry, rings, and watches before working on electrical equipment.

The main power supply(s) to the freezer must be disconnected prior to performing any repairs. Failure to follow this instruction may result in personal injury or death from electrical shock or hazardous moving parts as well as poor performance or damage to the equipment.

Note: All repairs must be performed by an authorized Taylor Service Technician.

Site Preparation

Review the area the unit is to be installed in before uncrating the unit making sure that all possible hazards the user or equipment may come into have been addressed.

Air Cooled Units

Air cooled units require a minimum of 6" (152 mm) of clearance around all sides of the freezer. Failure to allow adequate clearance can reduce the refrigeration capacity of the freezer and possibly cause permanent damage to the compressors.

For Indoor Use Only: This unit is designed to operate indoors, under normal ambient temperatures of 70°-75°F (21°-24°C). The freezer has successfully performed in high ambient temperatures of 104°(40°C) at reduced capacities.

This unit must **NOT** be installed in an area where a water jet or hose can be used. **NEVER** use a water jet or hose to rinse or clean the unit. Failure to follow this instruction may result in electrocution.

This unit must be installed on a level surface to avoid the hazard of tipping. Extreme care should be taken in moving this equipment for any reason. Two or more persons are required to safely move this unit. Failure to comply may result in personal injury or equipment damage.

Uncrate the unit and inspect it for damage. Report any damage to your Taylor Distributor.

This piece of equipment is made in the USA and has USA sizes of hardware. All metric conversions are approximate and vary in size.

Water Connections

(Water Cooled Units Only)

An adequate cold water supply must be provided with a hand shut-off valve. On the rear of the unit, two 3/8" I.P.S. water connections for inlet and outlet have been provided for easy hook-up. 1/2" inside diameter water lines should be connected to the machine. (Flexible lines are recommended, if local codes permit.) Depending on local water conditions, it may be advisable to install a water strainer to prevent foreign substances from clogging the automatic water valve. There will be only one water "in" and one water "out" connection. DO NOT install a hand shut-off valve on the water "out" line! Water should always flow in this order: first, through the automatic water valve; second, through the condenser; and third, through the outlet fitting to an open trap drain.

A back flow prevention device is required on the incoming water connection side. Please refer to the applicable National, State, and local codes for determining the proper configuration.

Electrical Connections

In the United States, this equipment is intended to be installed in accordance with the National Electrical Code (NEC), ANSI/NFPA 70-1987. The purpose of the NEC code is the practical safeguarding of persons and property from hazards arising from the use of electricity. This code contains provisions considered necessary for safety. Compliance therewith and proper maintenance will result in an installation essentially free from hazard! In all other areas of the world, equipment should be installed in accordance with the existing local codes. Please contact your local authorities.



Each freezer requires one power supply. Check the data label on the freezer for fuse, circuit ampacity and electrical specifications. Refer to the wiring diagram provided inside of the electrical box, for proper power connections.

CAUTION: THIS EQUIPMENT MUST BE PROPERLY GROUNDED! FAILURE TO DO SO CAN RESULT IN SEVERE PERSONAL INJURY FROM ELECTRICAL SHOCK!

This unit is provided with an equipotential grounding lug that is to be properly attached to the rear of the frame by the authorized installer. The installation location is marked by the equipotential bonding symbol (5021 of IEC 60417-1) on both the removable panel and the equipments frame.



- Stationary appliances which are not equipped with a power cord and a plug or another device to disconnect the appliance from the power source must have an all-pole disconnecting device with a contact gap of at least 3mm installed in the external installation.
- Appliances that are permanently connected to fixed wiring and for which leakage currents may exceed 10 mA, particularly when disconnected or not used for long periods, or during initial installation, shall have protective devices such as a GFI, to protect against the leakage of current, installed by the authorized personnel to the local codes.
- Supply cords used with this unit shall be oil-resistant, sheathed flexible cable not lighter than ordinary polychloroprene or other equivalent synthetic elastomer-sheathed cord (Code designation 60245 IEC 57) installed with the proper cord anchorage to relieve conductors from strain, including twisting, at the terminals and protect the insulation of the conductors from abrasion.

Beater Rotation

Beater rotation must be clockwise as viewed looking into the freezing cylinder.

Note: The following procedures should be performed by a trained service technician.

To correct rotation on a three-phase unit, interchange any two incoming power supply lines at freezer main terminal block only.

To correct rotation on a single-phase unit, change the leads inside the beater motor. (Follow diagram printed on motor.)

Electrical connections are made directly to the terminal block. The terminal block is provided in the main control box located behind the rear panel.

Refrigerant

In consideration of our environment, Taylor proudly uses only earth friendly HFC refrigerants. The HFC refrigerant used in this unit is R404A. This refrigerant is generally considered non-toxic and non-flammable, with an Ozone Depleting Potential (ODP) of zero (0).

However, any gas under pressure is potentially hazardous and must be handled with caution.

NEVER fill any refrigerant cylinder completely with liquid. Filling the cylinder to approximately 80% will allow for normal expansion.

Refrigerant liquid sprayed onto the skin may cause serious damage to tissue. Keep eyes and skin protected. If refrigerant burns should occur, flush immediately with cold water. If burns are severe, apply ice packs and contact a physician immediately.

Taylor reminds technicians to be cautious of government laws regarding refrigerant recovery, recycling, and reclaiming systems. If you have any questions regarding these laws, please contact the factory Service Department.

WARNING: R404A refrigerant used in conjunction with polyolester oils is extremely moisture absorbent. When opening a refrigeration system, the maximum time the system is open must not exceed 15 minutes. Cap all open tubing to prevent humid air or water from being absorbed by the oil.

Section 2

To the Operator

The freezer you have purchased has been carefully engineered and manufactured to give you dependable operation. When properly operated and cared for, it will produce a consistent quality product. Like all mechanical products, this machine will require cleaning and maintenance. A minimum amount of care and attention is necessary if the operating procedures outlined in this manual are followed closely.

This Operator's Manual should be read before operating or performing any maintenance on your equipment.

The Model PH61 will NOT eventually compensate and correct for any errors during the set-up or filling operations. Thus, the initial assembly and priming procedures are of extreme importance. It is strongly recommended that personnel responsible for the equipment's operation, both assembly and disassembly, study these procedures in order to be properly trained.

In the event you should require technical assistance, please contact your local authorized Taylor Distributor.

Note: Warranty is valid only if the parts are authorized Taylor parts, purchased from an authorized Taylor Distributor, and the required service work is provided by an authorized Taylor service technician. Taylor reserves the right to deny warranty claims on equipment or parts if non-approved parts or refrigerant were installed in the machine, system modifications were performed beyond factory recommendations, or it is determined that the failure was caused by neglect or abuse.

Note: Constant research results in steady improvements; therefore, information in this manual is subject to change without notice.

When your machine is delivered or if it has been in the OFF position for more than 24 hours, disassemble the freezer following procedures found on page 47. Follow assembly procedures on page 25 to re-assemble your machine. Dairy products are susceptible to bacterial contamination due to improper product handling. Therefore, be sure to use clean sanitary conditions when handling mix.

The machine must be disassembled, cleaned, sanitized, and lubricated every two weeks.



ALWAYS FOLLOW LOCAL HEALTH CODES.

During the heat treatment process, the product is brought to a temperature sufficient to destroy bacteria and is returned to a standby temperature.

The special control system will insure that the product is heated and maintained at the set temperature for the full 30 minutes. This time is required to insure that bacteria is destroyed. If the freezer was unable to complete the heating cycle, the LCD will read:

"HEAT TREAT CYCLE FAILURE - FREEZER LOCKED - PRESS SEL KEY". If this is the case, or if you require technical assistance, please contact your local authorized Taylor Distributor.

If the crossed out wheeled bin symbol is affixed to this product, it signifies that this product is compliant with the EU Directive as well as other similar legislation in effect after August 13, 2005. Therefore, it must be collected separately after its use is completed, and cannot be disposed as unsorted municipal waste.

The user is responsible for returning the product to the appropriate collection facility, as specified by your local code.

For additional information regarding applicable local laws, please contact the municipal facility and/or local distributor.

Compressor Warranty Disclaimer

The refrigeration compressor(s) on this machine are warranted for the term indicated on the warranty card accompanying this machine. However, due to the Montreal Protocol and the U.S. Clean Air Act Amendments of 1990, many new refrigerants are being tested and developed. thus seeking their way into the service industry. Some of these new refrigerants are being advertised as drop-in replacements for numerous applications. It should be noted that, in the event of ordinary service to this machine's refrigeration system, only the refrigerant specified on the affixed data label should be used. The unauthorized use of alternate refrigerants will void your compressor warranty. It will be the owner's responsibility to make this fact known to any technician he employs.

It should also be noted that Taylor does not warrant the refrigerant used in its equipment. For example, if the refrigerant is lost during the course of ordinary service to this machine, Taylor has no obligation to either supply or provide its replacement either at billable or unbillable terms. Taylor does have the obligation to recommend a suitable replacement if the original refrigerant is banned, obsoleted, or no longer available during the five year warranty of the compressor.

Taylor will continue to monitor the industry and test new alternates as they are being developed. Should a new alternate prove, through our testing, that it would be accepted as a drop-in replacement, then the above disclaimer would become null and void. To find out the current status of an alternate refrigerant as it relates to your compressor warranty, call the local Taylor Distributor or the Taylor Factory. Be prepared to provide the Model/Serial Number of the unit in question.

Section 3 Safety

We at Taylor are concerned about the safety of the operator when he or she comes in contact with the freezer and its parts. Taylor has gone to extreme efforts to design and manufacture built-in safety features to protect both you and the service technician. As an example, warning labels have been attached to the freezer to further point out safety precautions to the operator.

IMPORTANT - Failure to adhere to the following safety precautions may result in severe personal injury or death. Failure to comply with these warnings may damage the machine and its components. Component damage will result in part replacement expense and service repair expense.

To Operate Safely:

DO NOT operate the freezer without reading this operator's manual. Failure to follow this instruction may result in equipment damage, poor freezer performance, health hazards, or personal injury.

This dispenser is provided with a grounding lug that is to be properly attached to the rear of the frame by the authorized installer. The installation location is marked by the equipotential bonding symbol (5021 of IEC 60417-1) on the removable panel and the frame.



- DO NOT operate the freezer unless it is properly grounded.
- DO NOT operate the freezer with larger fuses than specified on the freezer data label.
- DO NOT attempt any repairs unless the main power supply to the freezer has been disconnected. Contact your local authorized Taylor Distributor for service.
- Stationary appliances which are not equipped with a power cord and a plug or another device to disconnect the appliance from the power source must have an all-pole

- disconnecting device with a contact gap of at least 3mm installed in the external installation.
- Appliances that are permanently connected to fixed wiring and for which leakage currents may exceed 10 mA, particularly when disconnected or not used for long periods, or during initial installation, shall have protective devices such as a GFI, to protect against the leakage of current, installed by the authorized personnel to the local codes.
- Supply cords used with this unit shall be oil-resistant, sheathed flexible cable not lighter than ordinary polychloroprene or other equivalent synthetic elastomer-sheathed cord (Code designation 60245 IEC 57) installed with the proper cord anchorage to relieve conductors from strain, including twisting, at the terminals and protect the insulation of the conductors from abrasion.

Failure to follow these instructions may result in electrocution. Contact your local authorized Taylor Distributor for service.



- **DO NOT** allow untrained personnel to operate this machine.
- DO NOT operate the freezer unless all service panels and access doors are restrained with screws.
- DO NOT remove any internal operating parts (example: freezer door, beater, scraper blades, etc.) unless all control switches are in the OFF position.
- DO NOT put objects or fingers in door spout or spinner housing.

Failure to follow these instructions may result in contaminated product or severe personal injury to fingers or hands from hazardous moving parts.

This unit has many sharp edges that can cause severe injuries.

- DO NOT put objects or fingers in the door spout. This may contaminate the product and cause severe personal injury from blade contact.
- USE EXTREME CAUTION when removing the beater asssembly. The scraper blades are very sharp.
- CAUTION-SHARP EDGES: Two people are required to handle the cup dispenser.
 Protective gloves must be worn and the mounting holes must NOT be used to lift or hold the dispenser. Failure to follow this instruction can result in personal injury to fingers or equipment damage.

DO NOT draw product during the HEAT cycle because of high product temperatures.



WARNING!

Some consumers are highly allergic to strawberries. In some severe cases, strawberry allergic reactions can cause death. When serving shakes, make sure the draw handle is closed automatically by the portion control device and that the white spot is visible.

This freezer must be placed on a level surface. Failure to comply may result in personal injury or equipment damage.

Cleaning and sanitizing schedules are governed by your state or local regulatory agencies and must be followed accordingly. Please refer to the cleaning section of this manual for the proper procedure to clean this unit.

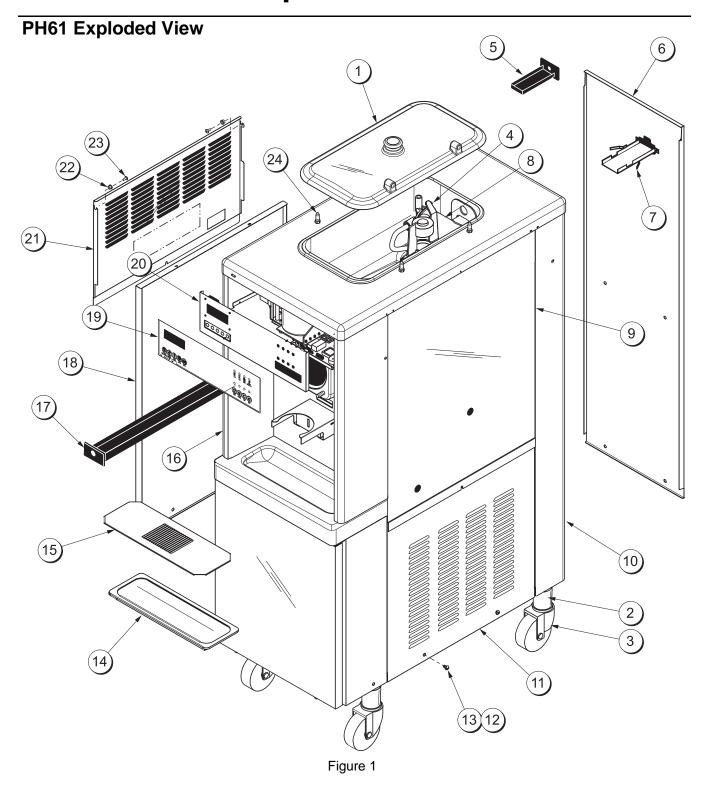
DO NOT obstruct air intake and discharge openings: 6" (152 mm) minimum air space on all sides. Failure to follow this instruction may cause poor freezer performance and damage to the machine.

For Indoor Use Only: This unit is designed to operate indoors, under normal ambient temperatures of 70° - 75°F (21° - 24°C). The freezer has successfully performed in high ambient temperatures of 104°(40°C) at reduced capacities.

NOISE LEVEL: Airborne noise emission does not exceed 78 dB(A) when measured at a distance of 1.0 meter from the surface of the machine and at a height of 1.6 meters from the floor.

Section 4

Operator Parts Identification



Model PH61 Parts Identification List

| ITEM | DESCRIPTION | PART NO. |
|------|--------------------------------------|-----------|
| 1 | Kit ACover-Hopper | X65369 |
| 2 | Adaptor ACaster | X18915 |
| 3 | Caster-Swivel 5/8 St. 4 in. Wheel | 018794 |
| 4 | Agitator A. | X44797 |
| 5 | Pan-Drip-Rear HT | 048204 |
| 6 | Panel-Rear | 048203 |
| 7 | Guide ADrip Pan | X48228 |
| 8 | Pump AMix Simplified Shake | X57028-14 |
| 9 | Panel-Side Upper R | 056013 |
| 10 | Trim-Rear Corner R | 045517 |
| * | Trim-Rear Corner L | 045516 |
| 11 | Panel-Lower Side R | 034680 |
| 12 | Screw-1/4-20 x 3/8 | 011694 |

| ITEM | DESCRIPTION | PART NO. |
|------|-----------------------------|------------|
| 13 | Fastener-Clip | 045865 |
| 14 | Tray-Drip 14-7/8 L | 013690 |
| 15 | Shield-Splash | 022763 |
| 16 | Panel AFront | X55436 |
| 17 | Pan ADrip | X28142 |
| * | Guide ADrip Pan | X45386 |
| 18 | Panel ALower Side | X24397-SER |
| 19 | Decal-Dec | 052280 |
| 20 | Display-Liquid Crystal | X38062-SER |
| 21 | Panel-Upper Side | 056012 |
| 22 | Washer-Plastic Pivot | 013808 |
| 23 | Screw-10-24 x 1/2 | 002077 |
| 24 | Pin-Retaining- Hopper Cover | 043934 |
| * | Tank-Syrup-4 Qt. | 045533 |

^{*}Not Shown

Beater and Door Assembly

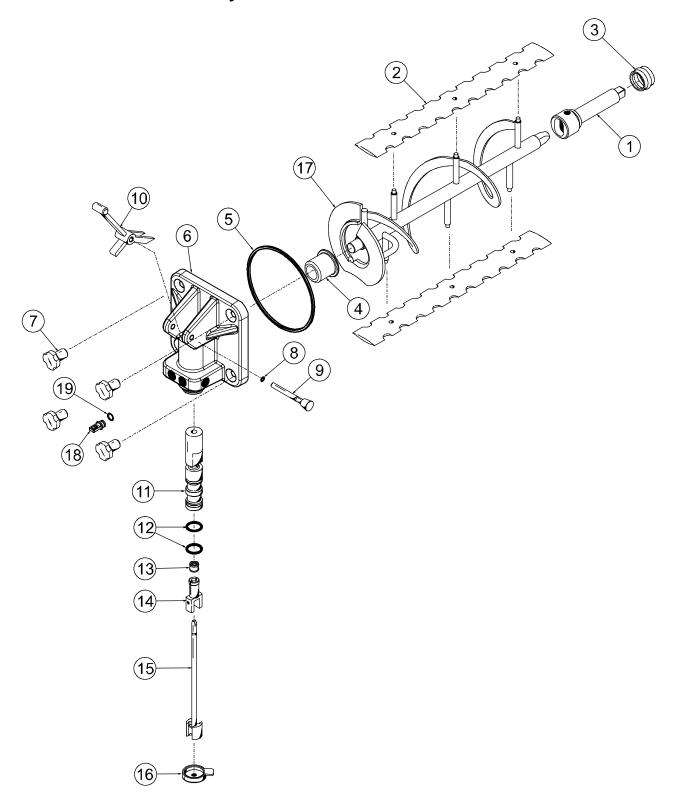


Figure 2

Beater & Door Assembly Parts Identification List

| ITEM | DESCRIPTION | PART NO. |
|------|------------------------------|------------|
| 1 | SHAFT-BEATER-7 QT. FLUTED | 050985 |
| 2 | BLADE-SCRAPER | 041103 |
| 3 | SEAL-DRIVE SHAFT | 032560 |
| 4 | BEARING-FRONT | 055605 |
| 5 | O-RING - FREEZER DOOR | 033493 |
| 6 | DOOR A1 SPT-4 FLV-HT | X55724-SER |
| 7 | HANDSCREW (STUD NUT) | 034034 |
| 8 | O-RING - PIVOT PIN | 016272 |
| 9 | PIN APIVOT | X22820 |
| 10 | HANDLE-DRAW VALVE | 034003 |

| ITEM | DESCRIPTION | PART NO. |
|------|---------------------|----------|
| 11 | VALVE ADRAW | X42210 |
| 12 | O-RING - DRAW VALVE | 020571 |
| 13 | SEAL-SPINNER SHAFT | 036053 |
| 14 | SPINNER-DRIVEN | 034054 |
| 15 | BLADE ASPINNER | X41895 |
| 16 | CAP-RESTRICTOR | 033107 |
| 17 | BEATER ASHAKE | X50958 |
| 18 | PLUG-SYRUP HOLE | 026278 |
| 19 | O-RING | 024278 |

X57028-14 Pump A. - Mix Simplified

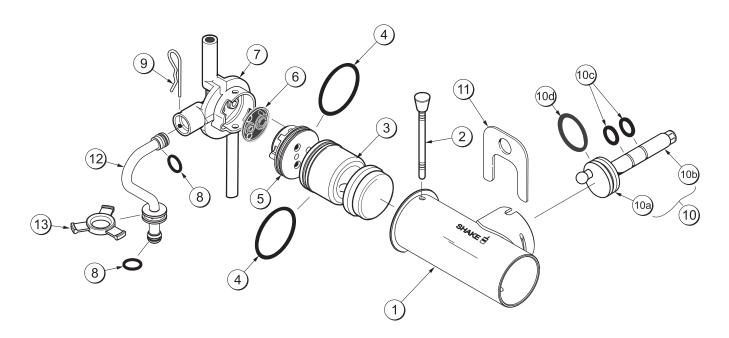


Figure 3

| ITEM | DESCRIPTION | PART NO. |
|-------|---|-----------|
| 1 - 7 | PUMP ASSEMBLY - MIX SIMPLIFIED SHAKE | X57028-14 |
| 1 | CYLINDER-PUMP-HOPPER- SHAKE | 057944 |
| 2 | PIN ACOAX PUMP | X55450 |
| 3 | PISTON | 053526 |
| 4 | O-RING 2-1/8" OD - RED | 020051 |
| 5 | CAP-VALVE | 056873-14 |
| 6 | GASKET - SIMPLIFIED PUMP VALVE | 053527 |
| 7 | ADAPTOR-MIX INLET SHAKE - BLUE | 054944 |
| 8 | O-RING - 11/16 OD - RED | 016132 |

| ITEM | DESCRIPTION | PART NO. |
|------|----------------------------------|----------|
| 9 | PIN - COTTER | 044731 |
| 10 | SHAFT ADRIVE-MIX PUMP- HOPPER | X41947 |
| 10a | CRANK-DRIVE | 039235 |
| 10b | SHAFT-DRIVE | 041948 |
| 10c | O-RING - DRIVE SHAFT | 048632 |
| 10d | O-RING 1-3/4 | 008904 |
| 11 | CLIP-MIX PUMP RETAINER | 044641 |
| 12 | TUBE AFEED-HOPPER SHAKE | X56522 |
| 13 | RING-CHECK .120 OD | 056524 |

Accessories

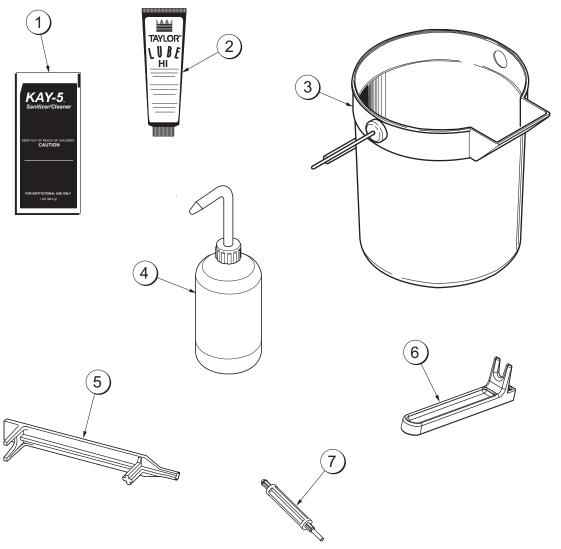


Figure 4

| ITEM | DESCRIPTION | PART NO. |
|------|----------------------------------|----------|
| 1 | SANITIZER KAY-5 (125 PACKS) | 041082 |
| 2 | LUBRICANT-TAYLOR HI-PERF. | 048232 |
| 3 | PAIL-MIX 10 QT. | 013163 |
| 4 | BOTTLE ASQUEEZE | X45080 |
| 5 | TOOL-SHAFT-DRIVE PUMP HPR/LVB | 047919 |
| 6 | TOOL-SHAFT-DRIVE PUMP HPR | 057167 |
| 7 | TOOL-SEAL-INSTALL/REMOVE | 035460 |

| ITEM | DESCRIPTION | PART NO. |
|------|--|-----------|
| * | KIT APARTS TRAY SIMPL PMP (Consists of 056525 & 044118 Trays - see parts list, page NO TAG) | X58447 |
| * | KIT AACCESSORY PH61 (Consists of X44797 Agitator, X54704 Cap, 033107 Cap Restrictor, & 041923 O-Ring) | X48127 |
| * | KIT-TUNE UP SIMPL PUMP | X49463-63 |

^{*}NOT SHOWN

X44127 Brush A.-Package-HT

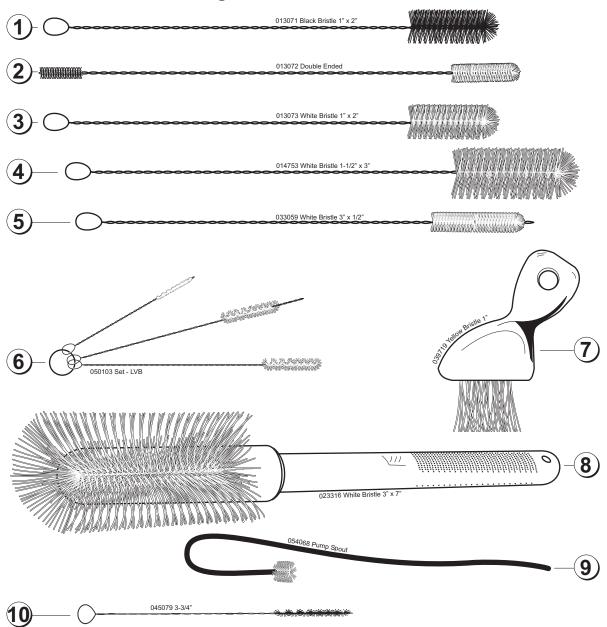
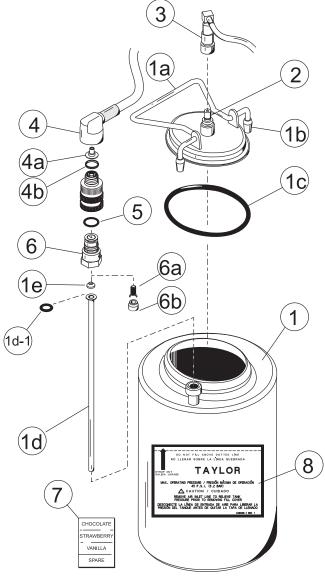


Figure 5

| ITEM | DESCRIPTION | PART NO. |
|------|-----------------------------------|----------|
| 1 | Black Bristle Brush | 013071 |
| 2 | Double End Brush | 013072 |
| 3 | White Bristle Brush (1" x 2") | 013073 |
| 4 | White Bristle Brush (1-1/2" x 3") | 014753 |
| 5 | White Bristle Brush (1/2" x 3") | 033059 |

| ITEM | DESCRIPTION | PART NO. |
|------|-------------------------|----------|
| 6 | Brush Set (3) | 050103 |
| 7 | Yellow Bristle Brush | 039719 |
| 8 | White Bristle (3" x 7") | 023316 |
| 9 | Brush-Pump Spout | 054068 |
| 10 | Brush-Syrup Port | 045079 |

Syrup Tank



| ITEM | DESCRIPTION | PART NO. |
|------|---------------------|----------|
| 1 | TANK-SYRUP 4 QT. | 045533 |
| 1a | COVER-TANK | 035759-1 |
| 1b* | TIP-NYLON WHITE | 042747 |
| 1D. | TIP-NYLON GREY | 024261 |
| 1c | O-RING-3.437 ID | 016037 |
| 1d | TUBE-DIP SYRUP TANK | 015441-7 |
| 1d-1 | O-RING .291 ID | 018550 |
| 1e | WASHER-1/4 FLARE | 018595 |
| 2 | PLUG-Q.D. C02 | 021077 |
| 3 | SOCKET-QD C02 | 021524 |

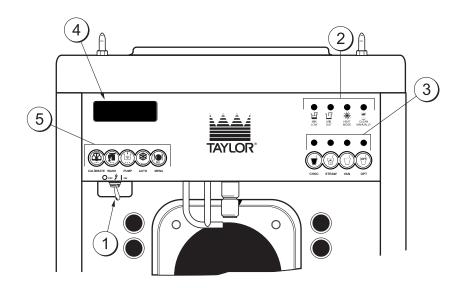
| ITEM | DESCRIPTION | PART NO. |
|------|---------------------------|----------|
| 4 | SOCKET-QD LIQ. 90 DEG. | 021026 |
| 4a** | RESTRICTOR-SYRUP | 030917 |
| 4b | GASKET-RUBBER | 023551 |
| 5 | O-RING-5/8 OD | 016030 |
| 6 | PLUG-QD LIQ. | 021081 |
| 6a | VALVE AQD PLUG | 021081-2 |
| 6b | INSERT-QD PLUG VALVE | 021081-1 |
| 7 | DECAL-SET OF 4 SYRUP FLAV | 021523 |
| 8 | DECAL-SYRUP TANK | 045533-1 |

^{*} DUAL SUPPLIER - ORDER AS NEEDED.

^{**}NOT USED ON CHOCOLATE.

Section 5

Important: To the Operator

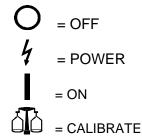


| Item | Description |
|------|------------------------|
| 1 | Power Switch |
| 2 | Indicator Lights |
| 3 | Flavor Selector Keypad |
| 4 | Liquid Crystal Display |
| 5 | Keys |

Symbol Definitions

To better communicate in the International arena, the words on many of our operator switches and buttons have symbols to indicate their functions. Your Taylor equipment is designed with these International symbols.

The following chart identifies the symbol definitions used on the operator switches.





Power Switch

The power switch is located under the control panel on the left hand side of the unit. When placed in the ON position, the power switch allows softech panel operation.

Liquid Crystal Display

The Liquid Crystal Display (LCD) is located on the front control panel. The LCD is used to show in what mode the freezer is operating and whether or not there is sufficient mix.

Indicator Lights

MIX LOW - When the MIX LOW light begins to flash, it indicates the mix hopper has a low supply of mix and should be refilled as soon as possible. The word "LOW" will also display on the LCD indicator next to the word "MIX".

MIX OUT - When the MIX OUT light begins to flash, it indicates the mix hopper has been almost completely exhausted and has an insufficient supply of mix to operate the freezer. The word "OUT" will also display on the LCD indicator next to the word "MIX". At this time, the AUTO mode is locked out and the freezer will be placed in the STANDBY mode. To initiate the refrigeration system, add mix to the mix hopper and press the AUTO key. The freezer will automatically begin operation.

HEAT MODE - When the HEAT MODE light is flashing, it indicates that the freezer is in the process of a heat cycle.

CLEAN MANUALLY - When the CLEAN MANUALLY light is flashing, it indicates that the machine must be disassembled and brush cleaned within 24 hours.

When all four indicator lights are flashing, this signifies a locked condition. Once a hard lock condition has been remedied, two lights will remain flashing until the mix low and mix out conditions have been satisfied. During a soft lock condition, all four lights will stop flashing once the unit has been placed in a heat cycle.

Reset Mechanism

The reset button is located in the right side panel. The reset mechanism protects the beater motor from an overload condition. Should an overload occur, the reset mechanism will trip. To properly reset the freezer, place the power switch in the OFF position. Press the reset button firmly. Turn the power switch to the ON position. Clear the fault. Press the WASH key and observe the freezer's performance. Open the side access panel to check if the beater motor is turning the drive shaft in a clockwise (from the operator end) direction without binding.

WARNING: Do not use metal objects to press the reset button. Failure to follow this instruction may result in serious electrical shock.

If the beater motor is turning properly, press the WASH key to cancel the cycle. Press the AUTO key to resume normal operation. If the freezer shuts down again, contact a service technician.

Operating Screen Descriptions

When the machine is powered the system will initialize. The screen will display "INITIALIZING". There will be four types of data the system will check: LANGUAGE, SYSTEM DATA, CONFIG DATA, and LOCKOUT DATA. During the INITIALIZING... LANGUAGE screen, the alarm will be on. If the system data, configuration data, or lockout history data has become corrupt, the following screen will alert the operator that the system settings may have been changed.

NVRAM FAULT RESET TO DEFAULTS PRESS SEL KEY

Once the system has initialized the SAFETY TIMEOUT screen is displayed and the alarm is turned on.

SAFETY TIMEOUT ANY KEY ABORTS

This screen will be displayed, with the alarm on, for 60 seconds or until any key is pressed.

After the safety timeout has been completed, and the power switch is OFF, one of the following screens is displayed.

The first screen is displayed if the machine is not in a brush clean state. If any of the requirements for a brush clean have not been met, the time displayed will remain at 5:00 minutes. When all the requirements for a brush cleaning are met, and the five minutes expire, the screen will change to the second screen, which is the standard power switch OFF screen.

POWER SWITCH OFF

TIME: 4:40 HOPPER: 62.1 BARREL: 67.7

POWER SWITCH OFF ----UNIT CLEANED

When the power switch is set in the ON position, the system mode of operation screen is displayed. In this example, the machine is ON, but no mode of operation has been selected. The second line of the display indicates whether there is a sufficient supply of mix in the hopper or if there is a LOW or OUT mix condition. The third line of the display shows the temperature of the mix hopper. After pressing the AUTO key, the last line of the display shows the month and date (MM = month, DD = day) that the machine needs to be disassembled and brush cleaned.

MODE: OFF

HOPPER TEMP: 35.5F

UNIT CLEANED

The next display indicates the freezer is operating in two different modes. The following information is given:

The machine is operating in the WASH and PUMP modes, the temperature of the mix hopper is 40°F (4.4°C), and the machine needs to be brush cleaned on October 31st.

MODE: WSH-PMP

HOPPER TEMP: 40.0 F BRUSH CLEAN ON: 10/31

The following displays pertain to the HEAT cycle:

While in the heating phase, you will see this display. It shows the present temperature of the hopper.

MODE: HEAT PHASE: HEAT

HOPPER TEMP: 140.0 F BRUSH CLEAN ON: MM/DD The mix temperature must be raised above 151°F (66.1°C) within 90 minutes or the freezer will be locked in STANDBY, and the cycle failure display will appear.

In the example, the hopper temperature is $140^{\circ}F$ ($60^{\circ}C$). The phase shows that the machine is in the heat phase of the heat treatment cycle.

When the heating phase is complete, the freezer goes into the holding phase of the cycle. The holding phase will hold the temperature above 151°F (66.1°C) for a minimum of 30 minutes.

In this example, the hopper temperature is $151^{\circ}F$ (66.1°C).

MODE: HEAT PHASE: HOLD

HOPPER TEMP: 151.0 F BRUSH CLEAN ON: MM/DD

The final phase of the heat treatment cycle is the cooling phase. Now the freezer must cool the mix below 41°F (5°C). If the product fails to cool in two hours, the freezer will lock out.

This example illustrates that the temperature is being lowered, but has not yet reached the set point.

MODE: HEAT PHASE: COOL

HOPPER TEMP: 55.0 F BRUSH CLEAN ON: MM/DD

The entire heat treatment cycle must be completed in four hours.

When the entire heat cycle has been completed, the normal display will appear, showing the machine in the STANDBY mode. The machine may now be placed in the AUTO mode or left in the STANDBY mode.

MODE: STANDBY

HOPPER TEMP: 41.0 F BRUSH CLEAN ON: MM/DD **Hard Lock:** There are two causes for a hard lock:

 Fourteen days have elapsed since the last brush cleaning. The following screen will be displayed.

> 14 DAY TIMEOUT CLEANING REQ'D FREEZER LOCKED PRESS SEL KEY

2. There has been a thermistor failure (freezing cylinder, hopper, or glycol) during the heat treatment process.

SYSTEM FAULT SERVICE REQ'D FREEZER LOCKED PRESS SEL KEY

All four LED's on the front of the freezer will light. Press the SEL key.

The next display is the screen which will appear after the failure message. To comply with health codes, heat treatment system freezers **must** complete a heat treatment cycle daily, and **must** also be brush cleaned every 14 days. Brush cleaning is the normal disassembly and cleaning procedures. Failure to follow these guidelines will cause the control to lock the freezer out of the AUTO mode. Press the WASH key.

NO AUTO OPERATION ALLOWED UNTIL BRUSH CLEANING PRESS WASH KEY

The next display is the screen which will appear after the brush cleaning message and illustrates that the control is in the OFF mode and the machine needs to be disassembled and brush cleaned.

MODE: OFF

HOPPER TEMP: 45.0 F FREEZER LOCKED **Soft Lock:** If a heat treatment cycle has not been **initiated** within the last 24 hours, all four LED's on the front of the machine will light and a message will appear on the LCD. Line 3 of the LCD will indicate the reason the message appears. Following are the variable messages which will appear on line 3:

- 1. POWER SWITCH OFF: Power switch was in the OFF position.
- 2. MIX OUT PRESENT: There was mix out condition present.
- 3. AUTO OR STANDBY OFF: The unit was not in the AUTO or STANDBY mode.
- 4. NO HEAT CYCLE TRIED: A heat treatment cycle was not attempted in the last 24 hours. (AUTO HEAT TIME was advanced, or a power loss was experienced at the time the cycle was to occur, or a heat cycle failure not due to a thermistor failure.)

NO HEAT TREAT START BECAUSE VARIABLE MESSAGE PRESS SEL KEY

If the following screen appears, a soft lock has occurred **during** the heat treatment cycle.

FAILURE
FREEZER LOCKED
PRESS SEL KEY

If the temperature of the product has not fallen below 41°F (5°C) by the end of the COOL cycle, the following screen will appear.

> PRODUCT OVER TEMP FREEZER LOCKED PRESS SEL KEY

Press the SEL key to advance to the next display.

When one of these messages appears, automatic freezer operation cannot take place until the freezer is disassembled and brush cleaned or has completed a heat treatment cycle. The next display will instruct the operator to start a heat treatment cycle manually (by pressing the AUTO key), or to disassemble and brush clean the freezer. If the AUTO key is pressed, the freezer will automatically start the heat treatment cycle and only the heat cycle LED will light.

NO AUTO OPERATION ALLOWED. PRESS AUTO FOR HEAT CYCLE WASH TO BRUSH CLEAN

If the WASH key is pressed, the next display will appear and the freezer will have to be disassembled and brush cleaned.

MODE: OFF

HOPPER TEMP: 41.0F FREEZER LOCKED

Once the freezer is unlocked by starting a heat treatment cycle, only the heat cycle LED will light. If the freezer is unlocked by brush cleaning, the mix low and mix out LED's will light.

Operator Menu

The OPERATOR MENU is used to enter the operator function displays. To access the OPERATOR MENU, simply press the MENU key. The cursor will flash over the letter "A" indicating that this is screen "A". To select a different screen, use the arrow keys and move the cursor to the desired screen selection and press the SEL key.

OPERATOR MENU

ABCDEFGHIJ

EXIT FROM MENU

SEL

Screen "B" is FAULT DESCRIPTION. The fault description will indicate if there is a fault with the freezer and the side of the freezer where the fault occurred. To clear the tone for any faults which have been corrected, press the left arrow key. To see if there is more than one fault per cylinder, press the SEL key. When the last fault is displayed, the control will return to the OPERATOR MENU. To return to the main screen, move the cursor to "A" and press the SEL key again. Listed below are the variable messages which will appear, along with the corrective action:

- NO FAULT FOUND: There was no fault found in the freezer. Nothing will appear on the screen after this variable message appears.
- 2. BEATER OVERLOAD: Press the reset button firmly. Clear the tone.
- 3. HPCO COMPRESSOR: Place the power switch in the OFF position. Wait 5 minutes for the machine to cool. Place the power switch in the ON position. Clear the tone.
- COMP ON TOO LONG: Place the power switch in the OFF position. Call service technician. Clear the tone.
- 5. HOPPER THERM BAD: Place the power switch in the OFF position. Call service technician.
- BARREL THERM BAD: Place the power switch in the OFF position. Call service technician.
- 7. GLYCOL THERM BAD: Place the power switch in the OFF position. Call service technician.

- 8. HOPPER OVER TEMP: The hopper temperature has risen too high as follows. Clear the tone.
 - a. The hopper temperature reaches 41°F (5°C) or higher after a power failure.
 - b. The hopper temperature has not fallen below 41°F (5°C) by the end of the COOL phase in the heat cycle.
- 9. BARREL OVER TEMP: The barrel temperature has risen too high as follows. Clear the tone.
 - a. The barrel temperature reaches 41°F (5°C) or higher after a power failure.
 - The barrel temperature has not fallen below 41°F (5°C) by the end of the COOL phase in the heat cycle.
- 10. POWER FAILURE: This message will appear in the FAULT DESCRIPTION if a power failure has occurred. Clear the tone.

FAULT DESCRIPTION VARIABLE MESSAGE

CLR

SEL

Screen "C" is SET CLOCK. This option allows the Manager to adjust the control clock date and time. The date and time may only be changed after the freezer has been manually cleaned but before it has been placed in the AUTO or STANDBY mode. The following message will be displayed if the SET CLOCK option is selected when the machine is not in a brush clean state.

SET CLOCK

12:01 7/21/2007

NO CHANGES ALLOWED

Press Any Key

To change the date or time, select the SET CLOCK option in the menu. Touch the UP arrow symbol to advance the arrow from Exit to Change, then touch the SEL key to select the Change option.

SET CLOCK 12:01 7/21/2007 Change > Exit

Change the time by touching the UP arrow with the cursor under the hour position. Move the cursor to the minutes position by touching the SEL symbol. Once the correct minutes are entered, touch the SEL key to advance the cursor to the month.

SET CLOCK 12:01 7/21/2007 > Exit

Enter the correct month, day, and year. Then touch the SEL symbol to advance to the DAYLIGHT SAVING TIME screen.

DAYLIGHT SAVING TIME ENABLED

> Enable Disable

The Daylight Saving feature, when enabled, will automatically adjust the control clock for daylight saving time. To disable the Daylight Saving Time feature, touch the DOWN arrow to move the arrow to "Disable". Then touch the SEL key to save the new setting.

Screen "D" is SYSTEM INFORMATION. The first screen will indicate the software version used in the unit.

SOFTWARE VERSION
PH61 Control UVC2
Version 2.00
SEL

Press the SEL key to view the second screen of the SYSTEM INFORMATION display. This screen will indicate the Bill of Material number and serial number for the unit. Press the SEL key once to return to the Operator Menu.

B.O.M. PH6133R907 S/N K0000000 SEL

Screen "E" is AUTO HEAT TIME. This screen is used to set the time of day in which the heat treatment cycle will start. Move the cursor under the number you wish to change. Press the plus key to increase the number; press the minus key to decrease the number. When the desired time appears, press the SEL key once to return to the OPERATOR MENU.

AUTO HEAT TIME
TIME: 12:00 AM
-<----> +++ --- SEL

Screen "F" is CURRENT CONDITIONS. This screen gives the viscosity of the product and the hopper and barrel temperatures. The last line of the display is the compressor countdown safety timer. The safety timer prevents the compressor from running more than 11 minutes (other than during the cooling phase of the heat treatment cycle).

Press the SEL key once to view the SERVINGS COUNTER screen.

| VISC | HOPPER | BARREL |
|--------|--------|--------|
| 0 | 38.5 | 28.5 |
| TIME C | 11:00 | 11:00 |

The SERVINGS COUNTER screen indicates the number of times the draw switch has closed (number of draws) since the last brush cleaning or since the last serving counter reset. A maximum of 32,767 draws can be recorded; an additional draw will cause the counter to restart at zero. Pressing the MENU key/SEL will return the display to the Operator Menu.

| SEL |
|-----|
| |

Draws are counted during the AUTO mode of operation only.

Screen "G" is HEAT CYCLE DATA. The information from the previous heat treatment cycles can be obtained through this screen. The most recent heat treatment cycle data will be shown first; press the plus key to scroll through the remaining heat cycle displays. If a heat treatment cycle failure should occur, a 2 character message will appear on the second line of the screen. Press the SEL key once to return to the OPERATOR MENU.

Listed below are the variable messages which could appear:

- HT Failure in the heating phase.
- CL Failure in the cooling phase.
- TT Failure in meeting total heat treatment cycle time requirement.
- MO Mix out condition.
- OP Operator interruption.
- PF Power failure. (If a power failure occurs, but the heat treatment cycle does not fail, an asterisk (*) will appear on the third line of the display.)
- BO Beater overload.
- HO High pressure cut-out.
- TH Failed thermistor probe.
- PS Power switch placed in the OFF position.
- ML Mix Low Condition.
- 14 14 Day Timeout Occurred.
- RC Heat Cycle Record Cleared.

| HEAT 01:09 | 02:00 OVER 00:45 38.5 | 05:09 COOL 01:14 | <i>XX</i> 1 |
|---------------|--------------------------------|------------------------|----------------|
|---------------|--------------------------------|------------------------|----------------|

Pressing the left arrow key on any HEAT CYCLE DATA screen will cause the extended data screen to be displayed. This screen shows the hopper, barrel, and glycol temperatures, and the amount of time the freezer spent in the phases of the heat cycle when the heat cycle completed, or was terminated.

| HOPPER | BARREL | GLYCOL |
|------------------|--------|--------|
| 151.0 | 134.5 | 178.0 |
| PHASE TIME: 1:20 | | 1 |

Screen "H" is the LOCKOUT HISTORY. This screen displays a history of the last 40 hard locks, soft locks, and brush clean dates. Page numbers are indicated in the upper right hand corner. Page 1 always contains the most recent failure. Press the PUMP key to cycle through the pages.

The second line of the screen displays the date and time a failure occurs. The third line indicates the reason for a failure, or will indicate a successful brush cleaning has occurred. Some failures occur for multiple reasons. When this occurs, a page will be generated for each reason. Press the SEL key once to return to the Operator Menu, or twice to return to the Main Screen.

LOCKOUT HISTORY 1
7/21/07 02:08
SOFTLOCK ABORT +++ --- SEL

Screen "I" is the SERVICE MENU. This screen can only be accessed by a service technician.

Screen "J" is the STANDBY MODE. To place the freezer in the STANDBY mode, move the cursor under the word "yes". Press the SEL key to execute the command. Pressing the SEL key again will return you to the main screen. To exit the STANDBY mode and place the unit in AUTO, press the AUTO key once. Pressing the AUTO key again will place the unit in the OFF mode.

| NO | |
|----|-------|
| | SEL |
| | NO NO |

Section 6

Operating Procedures

Equipment Set Up

Evaluate the condition of lights and screen messages (Hard Lock or Soft Lock, etc.) before performing opening procedures. If all four LED's on the front of the unit are lit, the unit is locked. (See Figure 6.)

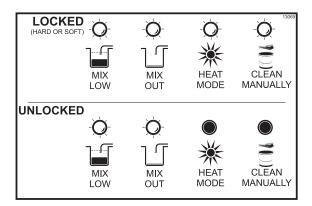


Figure 6

We begin our instructions at the point where we enter the store in the morning and find the parts disassembled and laid out to air dry from the previous night's cleaning.

These opening procedures will show you how to assemble these parts into the freezer, sanitize them, and prime the freezer with fresh mix in preparation to serve your first portion.

If you are disassembling the machine for the first time or need information to get to the starting point in our instructions, turn to the Closing Procedures on page 45, and start there.

Freezing Cylinder Assembly

Make sure the power switch is in the OFF position. Failure to follow this instruction may result in severe personal injury from hazardous moving parts.

With the parts tray available:

Step 1

Before installing the shake beater drive shaft, lubricate the groove on the beater drive shaft. Slide the beater drive shaft boot seal over the small end of the beater drive shaft and engage into the groove on the shaft. Heavily lubricate the inside portion of the boot seal and also lubricate the flat end of the boot seal that comes in contact with the rear shell bearing.

Apply an even coat of lubricant to the shaft. DO NOT lubricate the square end. (See Figure 7.)

Note: When lubricating parts, use an approved food grade lubricant (example: Taylor Lube HP).

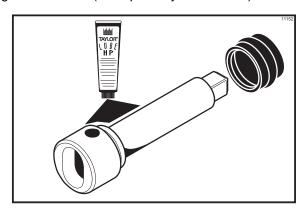


Figure 7

Note: To ensure that the mix does not leak out of the back of the freezing cylinder, the middle section of the boot seal should be convex or extend out from the seal. If the middle section of the boot seal is concave or extending into the middle of the seal, turn the seal inside out. (See Figure 8.)

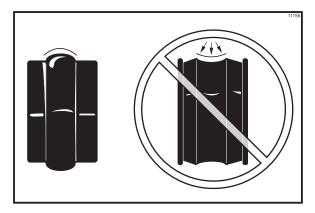


Figure 8

Step 2

Install the beater drive shaft through the rear shell bearing in the freezing cylinder and engage the square end firmly into the drive shaft coupling. Be sure the drive shaft fits into the drive coupling without binding. (See Figure 9.)

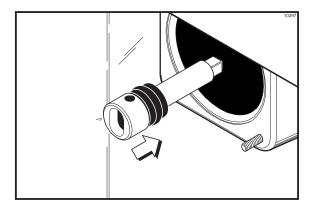


Figure 9

Step 3

Check scraper blades for any nicks or signs of wear. If any nicks are present, replace the blades.

Note: Scraper blades should be replaced every 6 months.

Step 4

If blades are in good condition, place each scraper blade over the holding pins on the beater assembly. (See Figure 10.)

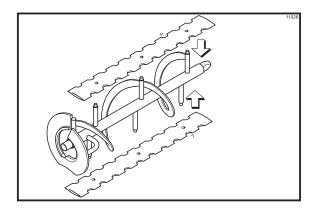


Figure 10

Note: The holes in the scraper blade must fit over the pins to prevent damage.

Step 5

Hold the blades on the beater assembly. Insert the back of the beater assembly into the freezing cylinder and connect the drive hole with the drive shaft. (See Figure 11.)

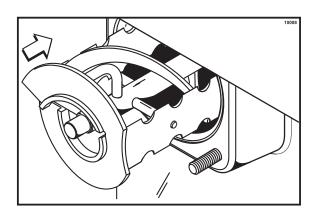


Figure 11

Note: When properly seated, the beater will not protrude beyond the front of the freezing cylinder.

Place the freezer door o-ring into the groove on the back of the freezer door. DO NOT lubricate the o-ring. Lubricate the outside diameter of the front bearing. Slide the front bearing into the door hub. (See Figure 12.)

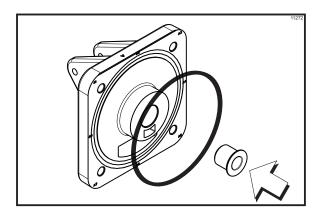


Figure 12

Step 7

Position the freezer door on the 4 studs on the front of the freezing cylinder. Install the handscrews. Tighten equally in a criss-cross pattern to insure the door is snug. **Do not over-tighten.** (See Figure 13.)

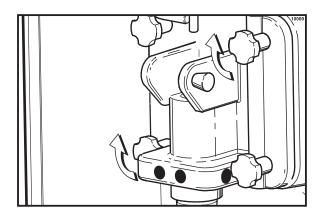


Figure 13

Step 8

Assemble the draw valve spinner assembly. Inspect draw valve o-rings for cuts or nicks. (Replace if cut or nicked.) If draw valve o-rings are in good condition, slide the 2 o-rings into the grooves of the draw valve and lubricate. (See Figure 14.)

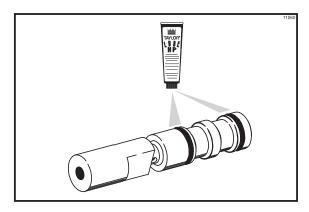


Figure 14

Step 9

Lubricate the outer diameter of the spinner shaft seal. Fill the cups on each end of the seal with lubricant. Insert the spinner shaft seal into the bottom of the draw valve as far as it will go. The spinner shaft seal should fit into the seal groove located inside the draw valve cavity.

Important: Inspect to see that the spinner shaft seal is correctly installed in the groove. A worn, missing, or improperly installed spinner shaft seal will cause product leakage out the top of the draw valve. (See Figure 15)

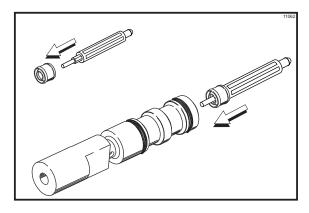


Figure 15

Step 10Lubricate the smaller end of the driven spinner. (See Figure 16.)

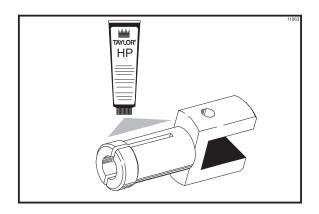


Figure 16

Step 11

Squeezing the split end together, insert the driven spinner through the metal opening of the draw valve until it snaps into place. (See Figure 17.)

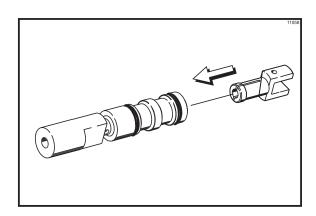


Figure 17

Step 12

Lubricate the inside of the freezer door spout, top and bottom. (See Figure 18.)

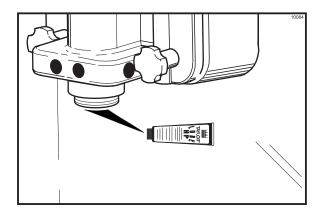


Figure 18

Step 13

Insert the draw valve spinner assembly from the bottom until the slot in the draw valve which accepts the draw handle comes into view. (See Figure 19.)

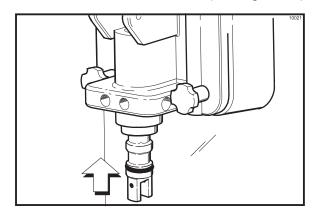


Figure 19

Step 14

Install and lubricate the pivot pin o-ring. (See Figure 20.)

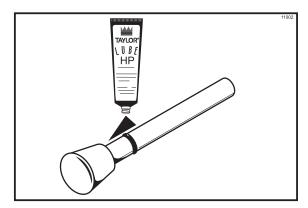


Figure 20

With the stopping tab of the draw handle facing down, slide the fork of the draw handle into the slot of the draw valve. Secure the draw handle with the pivot pin. (See Figure 21.)

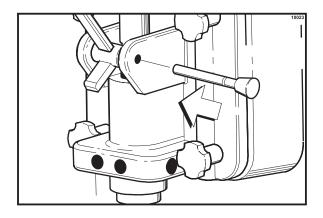


Figure 21

Step 16

Lubricate the shaft of the spinner blade up to the groove. (See Figure 22.)

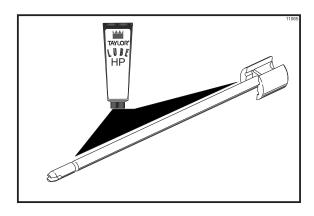


Figure 22

Step 17

Insert the spinner blade shaft from the bottom, into the center of the driven spinner, and up through the draw valve cavity until the shaft appears at the top of the draw valve. The spinner blade must be aligned and engaged to the driven spinner at the bottom. This allows the spinner shaft to raise high enough to be engaged into the spinner coupling at the top. (See Figure 23.)

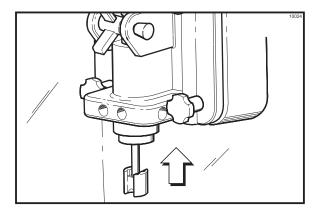


Figure 23

Step 18

Raise the locking collar of the spinner coupling and insert the spinner shaft into the cavity of the coupling until the locking collar can drop into the locked position. (See Figure 24.)

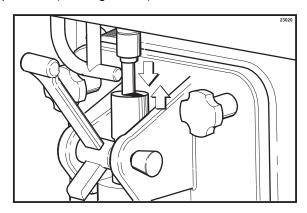


Figure 24

Snap the restrictor cap over the end of the door spout. (See Figure 25.)

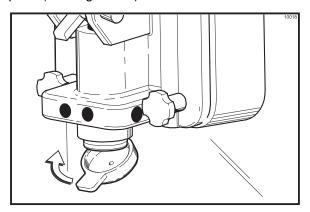


Figure 25

Step 20

Slide the long drip pan into the hole in the front panel.

Step 21

Slide the short drip pan into the hole in the rear panel.

Step 22

Install the front drip tray and splash shield under the door spout. (See Figure 26.)

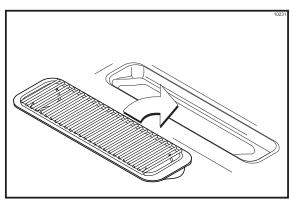


Figure 26

Mix Hopper Assembly

With the parts trays available:

Step 1

Inspect the rubber pump parts. O-rings and gasket must be in 100% good condition for the pump and entire machine to operate properly. The o-rings and gasket cannot properly serve their intended function if nicks, cuts, or holes in the material are present.

Replace any defective parts immediately and discard the old.

Step 2

Assemble the piston. Slide the red o-ring into the groove of the piston. DO NOT lubricate the o-ring. (See Figure 27.)

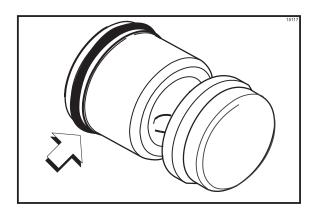


Figure 27

Apply a thin layer of lubricant to the inside of the pump cylinder at the retaining pin hole end. (See Figure 28.)

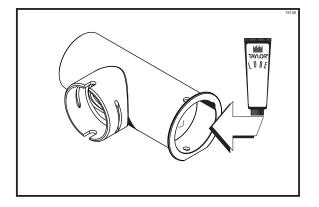


Figure 28

Step 4

Insert the piston into the retaining pin hole end of the pump cylinder. (See Figure 29.)

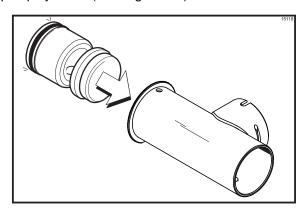


Figure 29

Step 5

Assemble the valve cap. Slide the red o-ring into the groove of the valve cap. DO NOT lubricate the o-ring. (See Figure 30.)

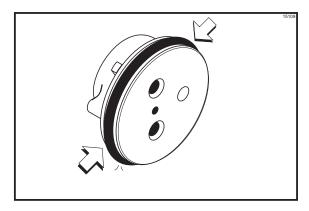


Figure 30

Step 6

Slide the pump valve gasket into the holes on the cap. DO NOT lubricate the gasket. (See Figure 31.)

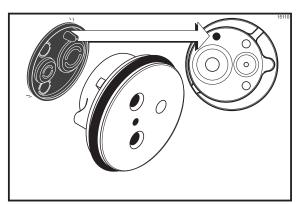


Figure 31

Insert the valve cap into the hole in the mix inlet adapter. (See Figure 32.)

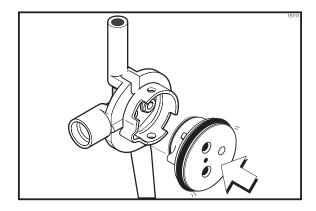


Figure 32

Step 8

Insert the mix inlet assembly into the pump cylinder. (See Figure 33.)

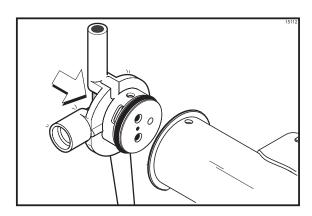


Figure 33

Note: The adapter must be positioned into the notch located at the end of the pump cylinder.

Step 9

Secure the pump parts in position by sliding the retaining pin through the cross holes located at one end of the pump cylinder. (See Figure 34.)

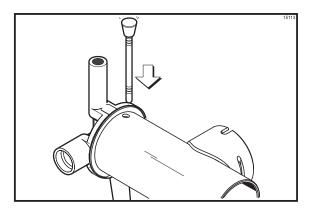


Figure 34

Note: The head of the retaining pin should located at the top of the pump when installed.

Step 10

Assemble the feed tube assembly. Slide the check ring into the groove of the feed tube. (See Figure 35.)

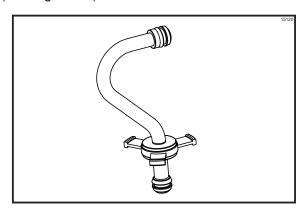


Figure 35

Install one red o-ring on each end of the mix feed tube, and thoroughly lubricate. (See Figure 36.)

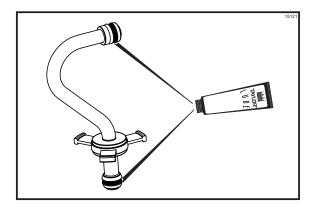


Figure 36

Step 12

Lay the pump assembly, pump clip, feed tube, cotter pin and agitator in the bottom of the mix hopper for sanitizing. (See Figure 37.)

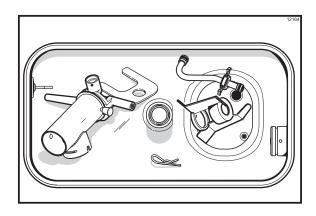


Figure 37

Step 13

Slide the large black o-ring and the two smaller black o-rings into the grooves on the drive shaft. Thoroughly lubricate the o-rings and shaft. DO NOT lubricate the hex end of the shaft. (See Figure 38.)

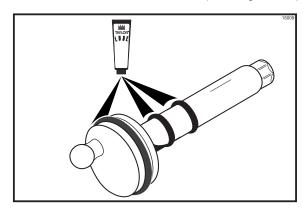


Figure 38

Step 14

Install the hex end of the drive shaft into the drive hub at the rear wall of the mix hopper. (See Figure 39.)

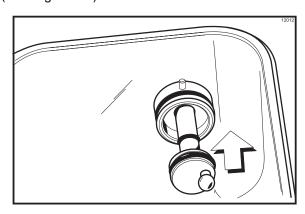


Figure 39

Note: For ease in installing the pump, position the ball crank of the drive shaft in the 3 o'clock position.

Sanitizing

Step 1

Prepare a pail of approved 100 PPM sanitizing solution (examples: 2-1/2 gal. [9.5 liters] of Kay-5® or 2 gal. [7.6 liters] of Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

Step 2

Pour the sanitizing solution over all parts in the bottom of the mix hopper and allow it to flow into the freezing cylinder.

Note: You have just sanitized the mix hopper and parts; therefore, be sure your hands are clean and sanitized before going on in these instructions.

Step 3

Using the white hopper brush, clean the mix level sensing probes, the mix hopper, mix inlet hole, the outside of the agitator drive shaft housing, the agitator, the air/mix pump, pump clip, mix feed tube and cotter pin.

Step 4

Prepare another pail of approved 100 PPM sanitizing solution (examples: 2-1/2 gal. [9.5 liters] of Kay-5® or 2 gal. [7.6 liters] of Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

Step 5

Install the air/mix pump assembly at the rear of the mix hopper. To position the pump on the drive hub, align the drive slot in the piston with the drive crank of the drive shaft. Secure the pump in place by slipping the pump clip over the collar of the pump, making sure the clip fits into the grooves in the collar. (See Figure 40.)

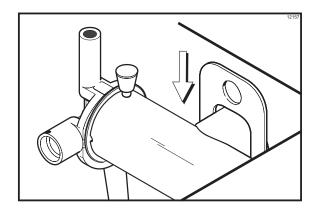


Figure 40

Step 6

Note: Install the pump end of the mix feed tube and secure with the cotter pin. Failure to follow this instruction could result in sanitizer spraying on the operator.

Step 7

Pour the sanitizing solution into the mix hopper. The sanitizing solution should be within 1" (25 mm) of the top of the hopper.

Step 8

Using the white hopper brush, scrub the exposed sides of the hopper.

Step 9

Place the power switch to the ON position.

Step 10

Press the WASH key. This will cause the sanitizing solution in the freezing cylinder to come in contact with all areas of the freezing cylinder. Allow the sanitizing solution to agitate for five minutes. (See Figure 41.)

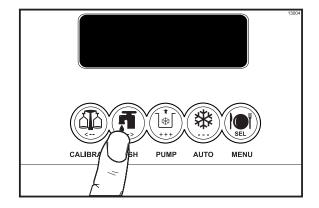


Figure 41

Step 11

With a pail beneath the door spout, open and close the draw valve six times.

Step 12

Press the PUMP key to sanitize the inside of the air/mix pump.

Step 13

Open the draw valve and draw off all the remaining sanitizing solution.

080910

Press the WASH and PUMP keys to stop the WASH and PUMP modes. Close the draw valve. (See Figure 42.)

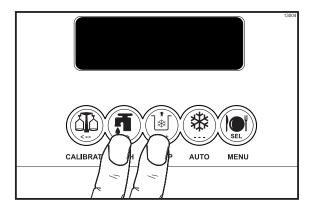


Figure 42

Note: Be sure your hands are clean and sanitized before going on in these instructions.

Step 15

Place the agitator on the agitator drive shaft housing. (See Figure 43.)

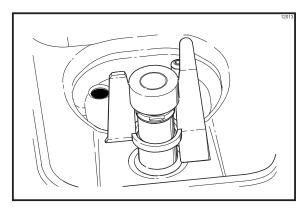


Figure 43

Note: If the agitator paddle should stop turning during normal operation, with **sanitized hands**, remove the agitator from the agitator drive shaft housing and brush clean with sanitizing solution. Install the agitator back onto the agitator drive shaft housing.

Step 16

Remove the restrictor cap.

Step 17

Return to the freezer with a small amount of sanitizing solution. With a pail below the door spout, dip the door spout brush into the sanitizing solution and brush clean the syrup ports in the freezer door, door spout, bottom of the driven spinner and spinner blade, and syrup line fittings.

To assure sanitary conditions are maintained, brush clean each item for a total of 60 seconds, repeatedly dipping the brush in sanitizing solution.

Step 18

With the syrup port brush, brush each syrup port hole 10 to 15 times. Dip the brush in sanitizing solution before brushing each port.

Step 19

Fill the squeeze bottle with sanitizing solution. With a pail beneath the door, insert the tube end of the squeeze bottle into the syrup port, and squeeze the bottle firmly. This action will force solution out of the adjacent port and down around the spinner.

This procedure should be performed for at least 10 seconds per port.

Step 20

Install the syrup valves and the restrictor cap.

Priming

Note: Evaluate the condition of LED's (lights) and screen messages before performing priming procedures. If all 4 LED's are flashing, the unit is locked.

Step 1

With a mix pail beneath the door spout, open the draw valve. Pour 2-1/2 gallons (9.5 liters) of FRESH mix into the mix hopper and allow it to flow into the freezing cylinder. This will force out any remaining sanitizing solution. When only mix is flowing from the door spout, close the draw valve.

When mix stops bubbling down into the freezing cylinder, remove the cotter pin from the outlet fitting of the mix pump. Remove the mix feed tube. Insert the outlet end of the mix feed tube into the mix inlet hole in the mix hopper. Place the inlet end of the mix feed tube into the outlet fitting of the mix pump. Secure with the cotter pin. (See Figure 44.)

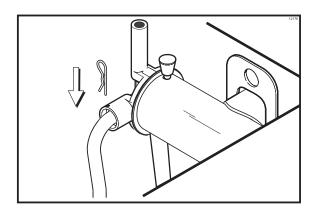


Figure 44

Step 3 Install the shake cup holder. (See Figure 45.)

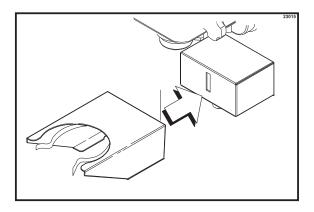


Figure 45

Step 4 Press the AUTO key. (See Figure 46.)

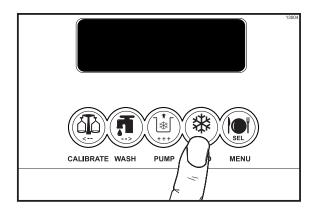


Figure 46

Step 5

Fill the hopper with fresh mix and place the mix hopper cover in position.

Use only FRESH mix when priming the freezer.

IMPORTANT: When drawing product, allow the draw handle to close automatically. Manually closing the draw handle will damage the syrup valve and cause serious syrup flavor carryover.

Daily Closing Procedures

This procedure must be done at the close of business.

The function of the Heat Treatment Cycle is to destroy bacteria by raising the temperature of the mix in the freezing cylinder and the hopper to a specified temperature for a specified period of time, and then bringing the temperature back down low enough to retard spoilage.

The Heat Treatment Cycle will start at the time designated in the Auto Heat Time.

IMPORTANT: The level of mix in the hoppers must be high enough to cover the agitator paddles.

Note: If the CLEAN MANUALLY light is flashing, do not add mix. The machine must be disassembled and brush cleaned within 24 hours.

The freezer must be in the AUTO or STANDBY mode before the HEAT cycle may be started. (See Figure 47.)

MODE: AUTO OK HOPPER 40.0F BRUSH CLEAN ON: MM/DD

Figure 47

Step 1

Remove the hopper cover, shake cup holder, front drip tray, splash shield, and all three drip pans (two from the rear panel and one from the front panel).

Make sure your hands are clean and sanitized before performing these next steps.

Note: Pressing the CAL key will stop agitator movement for 10 seconds. The agitator will automatically restart after 10 seconds.

Step 2

Remove the agitator from the mix hopper and the restrictor cap from the freezer door spout.

Step 3

Take the agitator, hopper cover, shake cup holder, drip pans, front drip tray, splash shield and restrictor cap to the sink for further cleaning and sanitizing. Take the syrup hole plugs, spout cap, and spout cap o-ring to the sink for further cleaning and sanitizing.

Step 4

Rinse these parts in cool, clean water.

Step 5

Prepare a small amount of an approved 100 PPM cleaning solution (example Kay-5® or Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

Step 6

Brush clean the parts.

Step 7

Place the restrictor cap, front drip tray, shake cup holder and splash shield on a clean, dry surface to air-dry overnight or until the heating cycle is complete.

Step 8

Prepare a small amount of an approved 100 PPM sanitizing solution (example Kay-5® or Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

Step 9

Sanitize the syrup hole plugs, spout cap, spout cap o-ring, rear drip pan, agitator, and hopper cover.

Step 10

Install the agitator back onto the agitator drive shaft housing. Replace the hopper cover. (See Figure 48.)

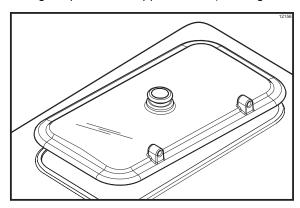


Figure 48

Important: If you do not install the agitator correctly, the machine will fail the heat cycle and will lock out in the morning.

Step 11

Remove the syrup lines from the freezer door.

Step 12

Return to the freezer with a small amount of cleaning solution. With a pail below the door spout, dip the door spout brush into the cleaning solution and brush clean the syrup ports in the freezer door, door spout and bottom of the driven spinner, spinner blade, and syrup line fittings. (See Figure 49.)

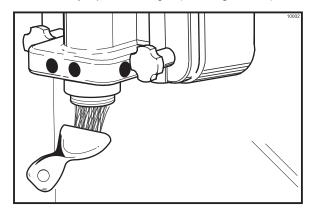


Figure 49

Note: To assure sanitary conditions are maintained, brush each item for a total of 60 seconds, repeatedly dipping the brush in cleaning solution.

Step 13

With the syrup port brush, brush each syrup port hole 10 to 15 times. Dip the brush in the cleaning solution before brushing each port. (See Figure 50.)

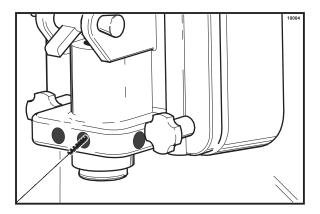


Figure 50

Step 14

Fill the squeeze bottle with cleaning solution. With a pail beneath the door, insert the tube end of the squeeze bottle into each syrup port and squeeze the bottle firmly. This action will force solution out of the adjacent port and down around the spinner. This procedure should be performed for at least 10 seconds per port. (See Figure 51.)

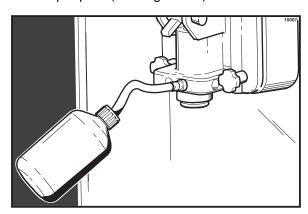


Figure 51

Step 15

Place the spout cap o-ring in the spout cap. Fill the spout cap with sanitizing solution. While holding the draw valve closed, install the spout cap over the end of the door spout. This will cause sanitizing solution to back flow through the syrup ports. (See Figure 52.)

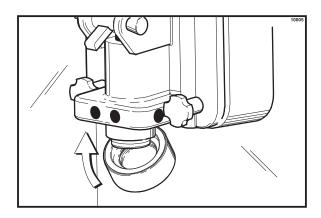


Figure 52

Step 16

Install the syrup hole plugs in the syrup ports in the freezer door. (See Figure 53.)

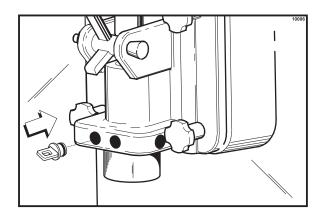


Figure 53

Step 17

Remove, clean and reinstall the long drip pan through the front panel.

Install the short drip pan in the rear panel.

Step 19

Use a clean, sanitized towel and wipe down the freezer door and area around the bottom of the freezer door.

The heat cycle will start when the clock on the machine reaches the AUTO HEAT TIME set in the Operator Menu (see page 21).

There are 3 phases of the heat cycle: Heating, Holding and Cooling. Each phase has a time limit. If any one of the three phases fail to reach the proper temperatures within the time limit, the cycle will automatically abort and return to the STANDBY mode. The LCD will display the message: HEAT TREAT CYCLE FAILURE - FREEZER LOCKED - PRESS SEL KEY. The product may not be safe to serve. The freezer will be locked out (softlock) of the AUTO mode. The operator will be given the option of pressing the AUTO key which will begin a new heat cycle, or pressing the WASH key which will place the freezer into the OFF mode to allow a brush clean of the machine.

Note: Once the heating cycle has started, it cannot be interrupted. The heating cycle will take a maximum of 4 hours to complete with a full hopper.

DO NOT attempt to draw product or disassemble the unit during the HEAT cycle. The product is hot and under extreme pressure.

When the heating cycle is complete, the control will return to the STANDBY mode.

Daily Opening Procedures

Evaluate the condition of LED's (lights) and screen messages (Hard Lock or Soft Lock, etc.) before performing opening procedures. As indicated in the illustration below, 4 flashing LED's, indicate a "locked" condition. (See Figure 54.)

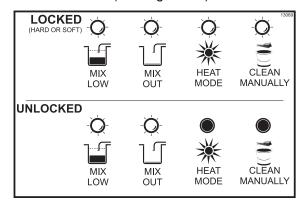


Figure 54

Set-Up - Complete The Following

Make sure your hands are clean and sanitized before performing these next steps.

Step 1

When the heating cycle is complete, the normal display will appear, showing the machine in the STANDBY mode.

Step 2

Prepare a small amount of an approved 100 PPM sanitizing solution (example Kay-5® or Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

Step 3

Remove the syrup hole plugs and spout cap with o-ring from the freezer door. Sanitize the restrictor cap, syrup hole plugs, spout cap and o-ring, shake cup holder, front drip tray and splash shield, in this solution.

Return to the freezer with a small amount of sanitizing solution. With a pail below the door spout, dip the door spout brush into the sanitizing solution and brush clean the syrup ports in the freezer door, door spout, bottom of the driven spinner and spinner blade, and syrup line fittings. (See Figure 55.)

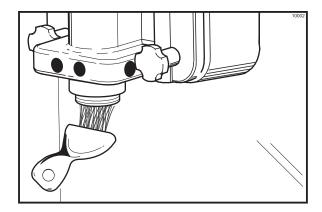


Figure 55

Note: To assure sanitary conditions are maintained, brush clean each item for a total of 60 seconds, repeatedly dipping the brush in sanitizing solution.

Step 5

With the syrup port brush, brush each syrup port hole 10 to 15 times. Dip the brush in sanitizing solution before brushing each port. (See Figure 56.)

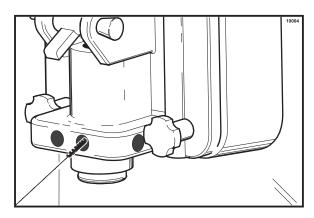


Figure 56

Step 6

Fill the squeeze bottle with sanitizing solution. With a pail beneath the door, insert the tube end of the squeeze bottle into the syrup port, and squeeze the bottle firmly. This action will force solution out of the adjacent port and down around the spinner. This procedure should be performed for at least 10 seconds per port. (See Figure 57.)

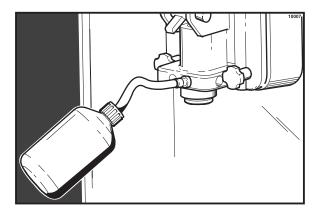


Figure 57

Step 7

Install the restrictor cap on the freezer door spout. (See Figure 58.)

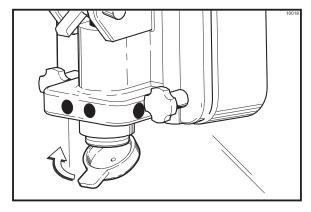


Figure 58

Step 8

Using a clean, sanitized towel, wipe down the freezer door and area around the bottom of the freezer door.

Install the shake cup holder, the front drip tray, and the splash shield.

Step 10

When ready to resume normal operation, press the AUTO key. (See Figure 59.)

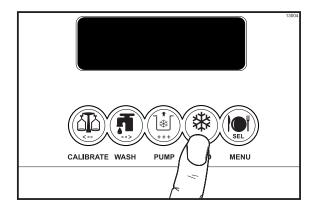


Figure 59

Note: This procedure should be done 3-4 hours before the first shake is served, to build up ice crystals.

Syrup System

Two main objectives in your opening procedures must be to: (1) fill the syrup tanks, and (2) calibrate the syrup flow. This must be checked **daily** to insure the high quality shake you desire.

Discard syrup weekly and flush syrup lines at least once a week. This will prevent syrup clogging the lines and will break the bacteria chain. See page 49 to sanitize the syrup system.

The syrup tanks are located in the lower front syrup compartment. The syrup lines are color spiral wrapped. Be sure to match the color wrapped syrup line to the correct syrup flavor. (See Figure 60.)

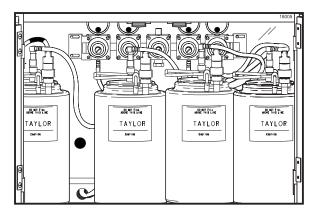


Figure 60

Note: Vanilla and strawberry syrup lines use restrictors at the syrup tank quick disconnect connection to maintain proper calibration. If thin viscosity syrups are used in the special tank, it will be necessary to install a restrictor in the syrup line connection.

Unscrew the quick disconnect from the elbow portion of the syrup line. Make sure the o-ring rests on the end of the quick disconnect fitting. Place the restrictor on top of the o-ring and screw the quick disconnect back onto the syrup line.

Step 1

Filling the syrup tanks: Pull back on the collar of the quick disconnect fitting for the air line. Allow the air pressure to escape from the syrup tank. (See Figure 61.)

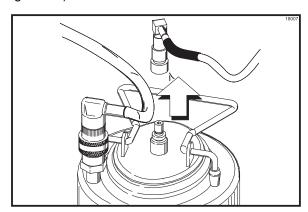


Figure 61

Disconnect the syrup line after you have disconnected the air line. (See Figure 62.)

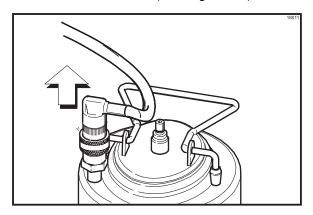


Figure 62

Remove the syrup tank from the compartment. Remove the syrup tank lid by lifting up on the locking lever. Fill the syrup tank with syrup to the indicating mark on the label. DO NOT overfill the tanks. (See Figure 63.)

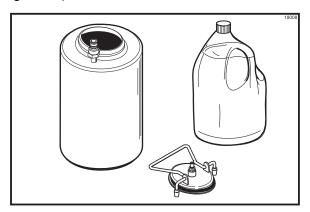


Figure 63

Replace the tank lid, match and connect the spiral wrapped syrup line to the syrup tank. Connect the air line to the syrup tank.

Repeat this procedure for all syrup tanks.

Step 2

Calibrating the syrup flow must be done on a daily basis. It is vital that the correct amount of syrup be incorporated into the mix to obtain a quality shake. The cause of too thin shakes is often too much syrup. The cause of too thick shakes is often too little syrup.

To determine the rate of syrup flow, you will need a syrup sampler and a calibration cup indicating fluid ounces. The proper rate of syrup flow is 1 fl. oz. (30 ml.) of syrup in 5 seconds. Once this rate is set, the correct amount of syrup will be blended with the shake base regardless of the size of shake served. (See Figure 64.)

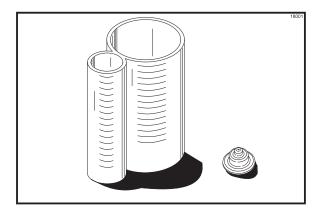


Figure 64

Install the syrup sampler to the fitting on one of the syrup lines. (See Figure 65.)

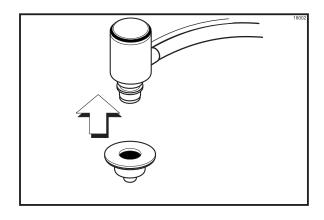


Figure 65

Push the corresponding flavor button for that syrup flavor. (See Figure 66.)

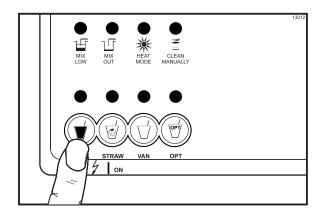


Figure 66

Hold an empty courtesy cup beneath the exit point of the syrup line. Press the CAL key (calibrate). A message will appear on the LCD. (See Figure 67.)

| | SYRUP SYSTEM P | RESS |
|------|----------------|------------|
| AUTO | | START CAL |
| WASH | | CONTINUOUS |
| CAL | | STOP |
| | | |

Figure 67

Press the WASH key. This will bleed any air pockets from the syrup line.

When a STEADY stream of syrup is flowing into the cup, press the CAL key to stop the syrup flow. Discard the syrup in the cup. (See Figure 68.)

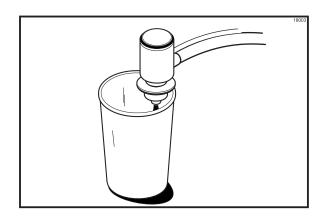


Figure 68

Hold the small portion of the calibrating cup under the syrup line with the syrup sampler. Press the CAL key. Press the AUTO key to check the rate of syrup flow. After 5 seconds the flow of syrup will automatically stop. If the amount of syrup received is 1 fl. oz. (30 ml.), the syrup is properly calibrated. (See Figure 69.)

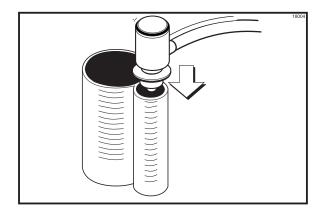


Figure 69

Step 3

Adjusting the syrup pressure: If the amount of syrup is less than 1 fl. oz. (30 ml.) the syrup pressure must be increased. If the amount of syrup is more than 1 fl. oz. (30 ml.) the pressure must be decreased.

Inside the syrup compartment is a regulator manifold assembly with individual pressure regulators to control the amount of pressure to each tank and syrup line. (See Figure 70.)

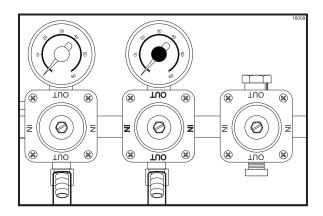


Figure 70

If less than 1 fl. oz. (30 ml.) is received, the pressure must be increased. Loosen the lock nut. Using a flat blade screwdriver, turn the adjusting screw CLOCKWISE.

Recheck the syrup calibration. Tighten the lock nut after the correct calibration is achieved.

If more than 1 fl. oz. (30 ml.) is received, the pressure must be decreased. Loosen the lock nut and turn the adjusting screw

COUNTERCLOCKWISE to zero. Remove the air line to the syrup tank to allow the pressure in the tank to escape. Reconnect the air line. Adjust the regulator to the new pressure setting and recheck the syrup calibration. Tighten the lock nut.

Repeat the calibration procedures for each additional syrup line.

Step 4

Remove the syrup sampler. Lightly lubricate the o-ring on each syrup line fitting. (See Figure 71.)

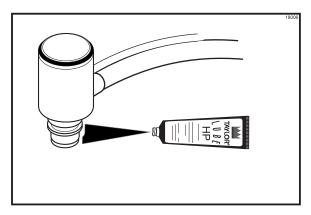


Figure 71

Attach the syrup lines to the freezer door. Insert the syrup line fitting into the syrup port in the freezer door. The flat side of the syrup line fitting must be aligned with the pin in the syrup port. Rotate the syrup line fitting upward to lock in place. (See Figure 72.)

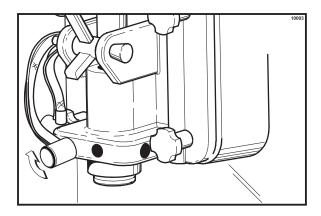


Figure 72

Note: Whenever a particular syrup line is not used, the syrup hole plug found in the spare parts kit must be installed. Place the syrup hole plug o-ring into the groove of the syrup hole plug and lubricate. Align the flat portion of the syrup hole plug with the locking pin in the open syrup port of the freezer door. Insert the syrup hole plug and turn slightly to lock in place.

Step 5

Clean the calibration cup and syrup sampler.

This Procedure Must be Performed Weekly!

Closing Procedures

THIS PROCEDURE MUST BE COMPLETED EVERY 14 DAYS.

FOLLOW YOUR LOCAL HEALTH CODES.

To disassemble the PH61, the following items will be needed:

- Two cleaning and sanitizing pails
- Necessary brushes (provided with freezer)
- · Cleaning solution
- Sanitizing solution
- Clean, sanitized towels
- Parts trays

Draining Product From the Freezing Cylinder

Step 1

Cancel automatic operation by pressing the AUTO key. (See Figure 73.)

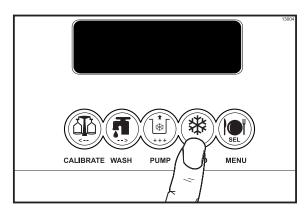


Figure 73

Step 2

Remove the shake cup holder. Set it aside for cleaning later with all parts.

Step 3

Remove the hopper cover and agitator. Take these parts to the sink to wash, rinse and sanitize.

Step 4

With a pail under the door spout, press the WASH and PUMP keys. Open the draw valve and start to drain the product from the freezing cylinder and mix hopper. (See Figure 74.)

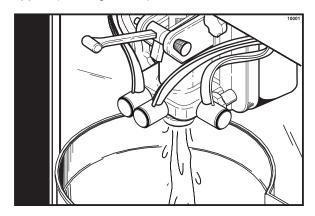


Figure 74

Step 5

When the flow of product stops, press the WASH and PUMP keys, cancelling the WASH and PUMP modes, and close the draw valve. **Discard this product.** (See Figure 75.)

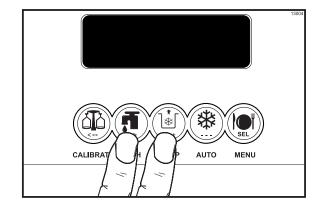


Figure 75

Step 6

Remove the cotter pin, mix feed tube, pump clip and the assembled air/mix pump. Place the parts into the parts tray.

Step 7

Remove the syrup lines from the freezer door by rotating the syrup line fittings and pulling out.

Rinsing

Step 1

Pour two gallons (7.6 liters) of cool, clean water into the mix hopper. With the white hopper brush, scrub the mix hopper, mix level sensing probes and the outside of the agitator drive shaft housing. Using the double ended brush, brush clean the mix inlet hole. (See Figure 76.)

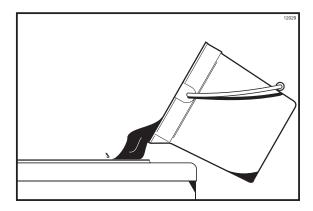


Figure 76

Note: Do not brush clean the mix inlet hole while the machine is in the WASH mode.

Step 2

With a mix pail beneath the door spout, press the WASH key. (See Figure 77.)

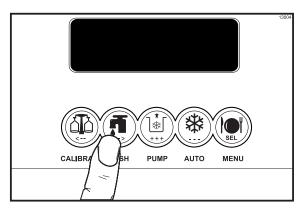


Figure 77

Step 3

Open the draw valve on the freezer door. Drain all the rinse water from the door spout, close the draw valve, and press the WASH key, cancelling the wash cycle.

Step 4

Repeat this procedure using clean, warm water, until the water being discharged is clear.

Cleaning and Sanitizing

Step 1

Prepare a pail of approved 100 PPM cleaning solution (examples: 2-1/2 gal. [9.5 liters] of Kay-5® or 2 gal. [7.6 liters] of Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

Step 2

Pour the cleaning solution into the hopper and allow it to flow into the freezing cylinder.

Step 3

Using the white hopper brush, clean the mix hopper, mix level sensing probes and the outside of the agitator drive shaft housing. Using the double ended brush, clean the mix inlet hole.

Note: Do not brush clean the mix inlet hole while the machine is in the WASH mode.

Step 4

Press the WASH key. This will cause the cleaning solution in the freezing cylinder to come in contact with all areas of the freezing cylinder.

Step 5

Place an empty pail beneath the door spout.

Step 6

Open the draw valve on the freezer door and draw off all the solution.

Step 7

Once the cleaning solution stops flowing from the door spout, close the draw valve and press the WASH key, cancelling the wash mode.

Step 8

Prepare a pail of approved 100 PPM sanitizing solution (examples: 2-1/2 gal. [9.5 liters] of Kay-5® or 2 gal. [7.6 liters] of Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

Step 9

Repeat steps 2 through 7 with the sanitizing solution.

Disassembly

Note: Failure to remove the parts, brush clean, and re-lubricate the parts, will result in damage to the machine. These parts must be removed every 14 days or the machine will lock out and will not operate.

Be sure the power switch is in the OFF position. Failure to follow this instruction may result in severe personal injury from hazardous moving parts. (See Figure 78.)

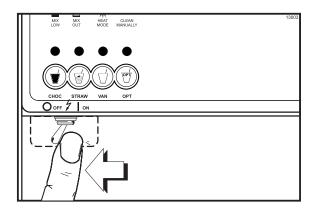


Figure 78

In order for the control to recognize that the unit has been brush cleaned, the following criteria must be met.

- All freezing cylinder and hopper temperatures must be above 60°F (16°C).
- The mix out and mix low probes must not be satisfied.
- The power switch must remain in the OFF position for at least 5 minutes.

Note: These criteria must be met simultaneously. These criteria will be met when the unit is properly brush cleaned.

The following screen is displayed if the machine is not in a brush clean state. (See Figure 79.) If any of the requirements for a brush clean have not been met, the time displayed will remain at 5:00 minutes.

| | POWER SWITCH OFF | |
|------|------------------|------|
| OUT | TIME: 4:40 | OUT |
| 68.5 | HOPPER | 62.1 |
| 69.5 | BARREL | 67.7 |
| | | |

Figure 79

When all the requirements for a brush cleaning are met, and the five minutes expire, the screen will change to the second screen, which is the standard power switch OFF screen. (See Figure 80.)



Figure 80

When the power switch is set in the ON position, the system mode of operation screen is displayed. In this example, the machine is ON, but no mode of operation has been selected. The second line of the display indicates whether there is a sufficient supply of mix in the hopper or if there is a LOW or OUT mix condition. The third line of the display shows the temperature of the mix hopper. After pressing the AUTO key, the last line of the display shows the month and date (MM = month, DD = day) that the machine needs to be disassembled and brush cleaned. (See Figure 81.)

| STANDBY | :MODE: | WSH-PMP |
|-----------------|--------|---------|
| OUT | :MIX: | LOW |
| 40.0F | HOPPER | 40.0F |
| BRUSH CLEAN ON: | 10/31 | |
| | | |

Figure 81

Note: The Manual Clean LED will begin flashing 24 hours prior to a 14 day lock-out. The four mode LED's will return to their normal function when the unit is unlocked.

With the parts tray available, remove the following parts and place in the parts tray:

Step 1

Remove the syrup lines from the syrup ports, and remove the restrictor cap from the bottom of the door spout.

Step 2

Remove the spinner blade from the bottom of the door spout by lifting up the locking collar on the spinner coupling and pulling down the blade.

Step 3

Remove the handscrews, freezer door, beater assembly with drive shaft seal and scraper blades from the freezing cylinder.

Step 4

Remove the drive shaft seal from the drive shaft of the beater assembly.

Step 5

Remove the freezer door o-ring, front bearing, pivot pin, draw handle and draw valve spinner assembly. Remove o-ring from pivot pin.

Step 6

Disassemble the draw valve spinner assembly. Remove the driven spinner by grasping the draw valve and pulling the driven spinner out. Remove the spinner shaft seal.

Step 7

Remove the two o-rings from the draw valve.

Note: To remove o-rings, use a clean, sanitized towel to grasp the o-ring. Apply pressure in an upward direction until the o-ring pops out of its groove. With the other hand, push the top of the o-ring forward and it will roll out of the groove and can easily be removed. If there is more than one o-ring to be removed, always remove the rear o-ring first. This will allow the o-ring to slide over the forward o-rings without falling into the open grooves.

Step 8

From the pump cylinder, remove the retaining pin, valve cap, piston, and the feed tube. Remove all o-rings and the check ring.

Step 9

Remove the pump drive shaft from the drive hub in the rear wall of the mix hopper.

Step 10

Remove the two small o-rings and one large o-ring from the drive shaft.

Note: If the drip pans are filled with an excessive amount of mix, it is an indication that the drive shaft seal(s), or o-ring(s) should be replaced or properly lubricated.

Brush Cleaning

Step 1

Prepare a sink with an approved 100 PPM cleaning solution (examples: Kay-5® or Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

Make sure all brushes provided with the freezer are available for brush cleaning.

Step 2

Thoroughly brush clean all disassembled parts and parts trays in the cleaning solution, making sure all lubricant and mix film is removed. Be sure to brush all surfaces and holes, especially holes in the pump valve body and the small syrup holes in the freezer door.

Step 3

Rinse all parts with clean, warm water, one tray at a time, including the tray.

Step 4

Return to the freezer with a small amount of cleaning solution. Using the black brush, clean the rear shell bearing at the back of the freezing cylinder. (See Figure 82.)

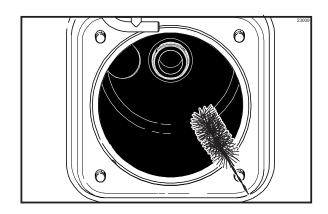


Figure 82

Using the black brush, clean the drive hub opening in the rear wall of the mix hopper. (See Figure 83.)

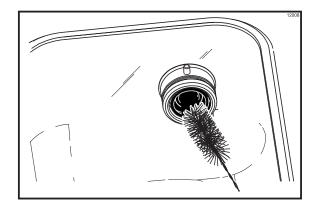


Figure 83

Step 6

Using the double end brush, brush clean the syrup line fittings.

Step 7

Prepare a sink with an approved 100 PPM sanitizing solution (examples: Kay-5® or Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

Step 8

Repeat step 3 with the sanitizing solution.

Step 9

Sanitize all parts in the sanitizing solution for a minimum of 1 minute.

Step 10

Place disassembled parts on clean and sanitized parts trays.

Step 11

Wipe all exterior surfaces of the freezer with a clean, sanitized towel.

Sanitizing the Syrup Systems

Two main objectives in your closing procedures must be to:

- 1. Discard all syrup at least once a week.
- 2. Flush the syrup lines at least twice a week.

This must be done on a regular basis

- a. to keep a build-up of old syrup from clogging the lines, and
- to break the bacteria chain which develops in the tanks and lines.

Remember: Calibrating the syrup flow must be done once every morning, especially after flushing the syrup lines.

Step 1

Sanitizing the syrup tanks. Pull back on the collar of the quick disconnect fitting of the air line. Allow the air pressure to dissipate from the syrup tank. Disconnect the syrup line.

Remove the syrup tank from its compartment. Remove the syrup tank lid by lifting up on the locking lever, and discard the remaining syrup.

Rinse the syrup tank with clean, warm water.

Prepare 1/2 gallon (1.9 liters) of the recommended sanitizing solution with **warm** water in the syrup tank. Brush clean the inside and outside of the tank. Remove the syrup line fitting. Remove the dip tube and o-ring from the syrup tank.

Thoroughly brush clean the dip tube, syrup line fitting, and o-ring using the sanitizing solution. Reassemble the dip tube, o-ring, and syrup line fitting.

Pour off all the sanitizing solution and place the tank in an upside-down position on a clean, dry surface to air dry.

Repeat this procedure for all the syrup tanks.

Step 2

Sanitizing the syrup lines. Prepare one gallon (3.8 liters) of the recommended sanitizing solution with warm water in the spare syrup tank. Replace and lock the tank lid in position. Place this tank in the syrup compartment.

Connect one of the air lines and the corresponding syrup line to the syrup tank filled with sanitizing solution.

Operating Procedures

Place the power switch in the "ON" position. This will activate the air compressor to supply pressure to the syrup system.

Install the syrup sampler to the fitting of the syrup line.

Press the corresponding flavor button for the syrup line being sanitized.

Place an empty pail beneath the exit point of the syrup line. Press the CAL key. A message will appear on the LCD.

Press the WASH key. Flush the syrup line until the solution runs clear. Press the CAL key to stop the flow of sanitizing solution.

Note: This procedure will thoroughly clean the syrup lines and prevent bacteria build-up.

Turn the syrup tank with the sanitizing solution upside-down. Press the CAL key. Press the WASH key to clear the syrup line of any remaining sanitizer. When the sanitizer has been flushed from the syrup lines, press the CAL key to complete this step.

Repeat this procedure for all syrup lines.

Place the power switch to the OFF position.

Section 7 Important: Operator Checklist

During Cleaning and Sanitizing



ALWAYS FOLLOW LOCAL HEALTH CODES.

Cleaning and sanitizing schedules are governed by your State or local regulatory agencies and must be followed accordingly. The following check points should be stressed during the cleaning and sanitizing operations.

CLEANING AND SANITIZING MUST BE PERFORMED EVERY 14 DAYS.

Troubleshooting Bacterial Count:

☐ 1. Thoroughly clean and sanitize machine regularly, including complete disassembly and brush cleaning. □ 2. Use all brushes supplied for thorough cleaning. The brushes are specially designed to reach all mix passageways. □ 3. Use the white bristle brush to clean the mix inlet hole which extends from the mix hopper down to the rear of the freezing cylinder. ☐ 4. Use the black bristle brush to thoroughly clean the rear shell bearing located at the rear of the freezing cylinder and the drive hub opening in the rear wall of the mix hopper. Be sure to have a generous amount of cleaning solution on the brush. ☐ 5. Properly prepare the cleaning and sanitizing solutions. Read and follow label directions carefully. Too strong of a solution may damage the parts and too weak of a solution will not do an adequate job of cleaning or sanitizing. ☐ 6. Empty all syrup from the tanks and discard at

☐ 7. Thoroughly clean and sanitize the syrup lines

least once a week.

at least once a week.

- □ 8. Temperature of mix in mix hopper and walk-in cooler should be below 40°F. (4.4°C.).
- 9. Discard remaining mix from freezer during "Closing Procedures".

Regular Maintenance Checks:

- 1. Rotate scraper blades to allow both sides of the knife edge to wear evenly. This will contribute to self-sharpening and help maintain fast, efficient freezing.
- 2. Replace scraper blades that are bent, damaged, or worn down.
- □ 3. Before installing beater, be certain that scraper blades are properly attached over the beater pins.
- 4. Dispose of o-rings and seals if they are worn, torn, or fit too loosely, and replace with new ones.
- □ 5. Check rear shell bearing for signs of wear (excessive mix leakage in rear drip pan) and be certain it is properly cleaned.
- ☐ 6. Using a screwdriver and cloth towel, keep the rear shell bearing and the female drive socket free of lubricant and mix deposits.
- ☐ 7. Follow all lubricating procedures as outlined in "Assembly".
- 8. On air cooled units, check the condenser for accumulation of dirt and lint. Dirty condensers will reduce the efficiency and capacity of the machine. Condensers and filters should be cleaned monthly. Remove the rear panel to gain access to the condenser. Use a soft brush to clean between the fins of the condenser. Never use screwdrivers or other metal probes to clean between the fins.
- 9. On water cooled units, check the water lines for kinks or leaks. Kinks can occur when the machine is moved back and forth for cleaning or maintenance purposes. Deteriorated or cracked water lines should be replaced only by an authorized Taylor mechanic.

070823

Winter Storage

If the place of business is to be closed during the winter months, it is important to protect the freezer by following certain precautions, particularly if the building is to be left unheated and subject to freezing conditions.

Disconnect the freezer from the main power source to prevent possible electrical damage.

On water cooled freezers, disconnect the water supply. Use air pressure to blow out any water remaining in the condensers. **This is extremely important.** Failure to follow this procedure may cause severe and costly damage to the refrigeration system.

Your local Taylor Distributor can perform this service for you.

Wrap detachable parts of the freezer such as beater assembly and freezer door, and place in a protected, dry place. Rubber trim parts and gaskets can be protected by wrapping with moisture-proof paper. All parts should be thoroughly cleaned of dried mix or lubrication accumulations which attract mice and other vermin.

Section 8

Troubleshooting Guide

| Problem | Probable Cause | Corrective Action |
|---------------------------------------|--|--|
| All four LED's are flashing. | The freezer is locked. | See soft lock and hard lock information. |
| Soft lock message appears on LCD. | More than 24 hours since the last HEAT cycle. | The freezer must go through a HEAT cycle every 24 hours. The freezer must now be disassembled and brush cleaned or placed in a heat cycle. |
| | The power switch is in the OFF position. | The power switch must be in the ON position. The freezer must now be disassembled and brush cleaned or placed in a heat cycle. |
| | The freezer is not in the AUTO mode. | The freezer must be in the AUTO mode. Freezer must now be disassembled and brush cleaned or placed in a heat cycle. |
| | Mix out condition. | The level of mix in the mix hopper must be above the mix low probe. The freezer must now be disassembled and brush cleaned or placed in a heat cycle. |
| | The agitator is not installed. | The agitator must be cleaned and installed before starting the HEAT cycle. The freezer must now be disassembled and brush cleaned. |
| | The agitator is not rotating. | The agitator must be cleaned before starting the HEAT cycle. Disassemble the freezer and brush clean. |
| | An equipment fault has occurred. | See Screen "H" in the Operator's Menu to determine the cause. |
| Hard lock message appears on the LCD. | A barrel or hopper thermistor is faulty. | Call a service technician. |
| | More than 14 days since the last brush cleaning. | The freezer must be disassembled and brush cleaned every 14 days. |
| No product is being dispensed. | Low on mix. The MIX OUT light is ON. | Add mix to the mix hopper. |
| | The power switch is in the OFF position. | Place the power switch to ON and press the AUTO key. |
| | Freeze-up in mix inlet hole. | Call service technician. |
| | Beater motor is out on reset. | Clear the tone. Allow the beater motor to cool. Place the power switch to OFF. Press the reset button firmly, place the power switch to ON and press the WASH key. Open the side access panel and observe that the drive shaft is turning CLOCKWISE as viewed from the front of the machine. Press the AUTO key to return to the AUTO mode. If the beater motor should go OFF on reset again, call service technician. |

| Problem | Probable Cause | Corrective Action |
|--|---|---|
| No product is being dispensed. (Cont'd.) | Air/mix pump is incorrectly assembled or improperly lubricated. | Follow assembly procedures carefully. |
| | The mix pump ball crank is broken. | Call service technician. |
| | The pump motor is not activated. | Push the reset button. The draw valve must be fully opened to activate the pump motor. |
| The product is too thick. | Not enough syrup - 1 fl. oz. (30 ml.) in 5 seconds. | Calibrate the syrups. Check that the syrup tanks have an adequate syrup supply. |
| | Insufficient mix in the freezing cylinder. | Check the air/mix pump assembly. |
| | Improper priming procedures. | Drain the freezing cylinder and re-prime the machine. |
| | Air/mix pump incorrectly assembled. | Follow assembly procedures carefully. |
| | The viscosity control is set too cold. | Call service technician. |
| | Freeze-up in mix inlet hole. | Call service technician. |
| Product is too soft. | Too much syrup - 1 fl. oz. (30 ml.) in 5 seconds. | Calibrate syrups. |
| | Outdrawing capacity of freezing cylinder. | Continuous draw rate is approximately one 16 oz. (473 ml.) shake by volume every 15-20 seconds. |
| | Inadequate air space. | Minimum of 6" (152 mm) air space around all sides. |
| | Dirty condenser or air filters on air cooled units. | Clean regularly. |
| | Inadequate water supply on water cooled units. | Check the water supply. Check the water lines for leaks or kinks. |
| | Bad scraper blades. | Replace the scraper blades. |
| | The viscosity control is set too warm. | Call service technician. |
| | Air passage is blocked in the pump. | Brush clean the pump components and reassemble. |

| Problem | Probable Cause | Corrective Action |
|--|--|---|
| The mix in the hopper is too warm. | Hopper cover is not in position. | Clean the hopper cover and place in position. |
| | The agitator is not installed. | Clean the agitator and install. |
| | The hopper temperature is out of adjustment. | Call service technician. |
| The mix in hopper is too cold. | The hopper temperature is out of adjustment. | Call service technician. |
| Product is collecting on top of draw valve. | Inadequate lubrication of spinner shaft or seal. | Lubricate properly. |
| | Spinner shaft seal is missing or worn. | Install or replace the spinner shaft seal. |
| Product is collecting on top of the freezer door. | The top o-ring on draw valve is improperly lubricated or worn. | Lubricate properly or replace the o-ring. |
| Excessive mix leakage from the bottom of door spout. | Bottom o-ring on draw valve is improperly lubricated or worn. | Lubricate properly or replace the o-ring. |
| Excessive mix leakage into the long drip pan. | The seal on drive shaft is improperly lubricated or worn. | Lubricate properly or replace the seal. |
| | The seal is installed inside-out on the drive shaft. | Install correctly. |
| | Worn or missing o-rings on pump drive shaft. | Install or replace the o-rings. |
| | Inadequate lubrication of the drive shaft. | Lubricate properly. |
| | The drive shaft and beater assembly work forward. | Call service technician. |
| | Worn rear shell bearing. | Call service technician. |
| | Gear box out of alignment. | Call service technician. |

| Problem | Probable Cause | Corrective Action |
|---|---|--|
| The drive shaft is stuck in the drive coupling. | Mix and lubricant collected in drive coupling. | Brush clean the rear shell bearing area regularly. |
| | Rounded corners of drive shaft, drive coupling or both. | Call service technician. |
| | Gear box is out of alignment. | Call service technician. |
| Freezing cylinder walls scored. | Missing or worn front bearing. | Install or replace the front bearing. |
| | Broken beater pins. | Repair or replace the beater assembly. When installing scraper blades, be sure they are properly attached over the pins. |
| | Gear box is out of alignment. | Call service technician. |
| Spinner shaft will not rotate to blend mix and syrup. | Flexible coupling is broken. | Call service technician. |
| | Pin is missing in quick disconnect of spinner coupling. | Call service technician. |
| | Spinner motor is out on thermal overload. | Allow the spinner motor to cool. Also check lubrication on spinner shaft. Properly align the motor and lubricate properly. |
| Large adjustments are necessary to receive 1 fl. oz. (30 ml.) in 5 seconds. | Syrup lines are not matched with correct syrup flavor. | Match the color wrapped syrup lines to the correct syrup flavors. |
| | The plunger is sticking in the syrup valve. | Clean the valve. |
| | Plugged syrup line fitting at freezer door connection. | Clean the syrup line fitting. |
| | Verify that the proper syrup selection was made. | Make the proper syrup selection. |
| Pump will not operate in the PUMP mode. | Pump motor is not activated. | Push the reset button. |
| | The membrane switch is defective. | Call service technician. |

| Problem | Probable Cause | Corrective Action |
|--|--|---|
| Machine will not run when in the AUTO mode. | Machine is unplugged. | Plug into wall receptacle. |
| | Beater motor is out on reset. | Clear the tone. Allow the beater motor to cool. Place the power switch to OFF. Press the reset button firmly. Place the power switch to ON, and press the WASH key. Open the side access panel and observe that the drive shaft is turning CLOCKWISE as viewed from the front of the machine. Press the AUTO key to return to the AUTO mode. If the beater motor should go OFF on reset again, call service technician. |
| | Circuit breaker OFF or blown fuse. | Turn the breaker ON or replace the fuse, and clear the fault. |
| | Low on mix. The MIX OUT light is ON. | Add mix to the mix hopper and press the AUTO key. |
| | Water is turned OFF on water cooled units. | Turn water ON, and clear the fault. |
| Air compressor runs too often for normal usage. | Air leak in the system. | Use a soap solution to locate the leak and repair. |
| Liquid Crystal Display is blank. | Machine is unplugged. | Plug into wall receptacle. |
| | Circuit breaker is OFF or blown fuse. | Turn the circuit breaker ON or replace the fuse, and clear the fault. |
| | Component failure. | Call service technician. |
| | LCD intensity needs adjusting. | Call service technician. |
| Product is not feeding into the freezing cylinder. | The mix inlet hole is frozen up. | The hopper temperature needs adjustment. Call service technician. |
| The draw handle does not close. | Mix is on the sensing eye. | Clean the sensing eye. |
| Product "popping" when drawn. | Pump assembled incorrectly. | Assemble and lubricate according to instructions in this manual. |
| Freezer shuts off, but fault tone continues. | Fault has occurred in the freezer. | Verify condition in the Operator's Menu "fault" screen. Clear fault accordingly. |
| | Inadequate air clearance around the freezer. | Minimum of 6" (152 mm) air space around all sides to prevent recirculation of warm air. |

| Problem | Probable Cause | Corrective Action |
|---|-----------------------------------|--|
| Syrup flows constantly, or not at all. Difficult to calibrate syrups. | Syrup lines are clogged. | Disassemble and clean the syrup valves. Flush syrup lines with warm water and sanitize weekly. |
| | The syrup valve plunger is stuck. | Disassemble and clean the syrup valve. |
| Shakes have air bubbles in them. | Syrup valves are clogged. | Disassemble and clean the syrup valves. |
| Mix low and mix out probes are not functioning. | Milkstone build-up in the hopper. | Clean hoppers thoroughly. |

Section 9 Parts Replacement Schedule

| PART DESCRIPTION | EVERY 3 MONTHS | EVERY 6 MONTHS | ANNUALLY |
|---------------------------|-------------------|--------------------------------|----------|
| Scraper Blade-Shake | | Х | |
| Drive Shaft Seal | X | | |
| Freezer Door O-Ring-Shake | X | | |
| Front Bearing | X | | |
| Draw Valve O-Ring | Х | | |
| Spinner Shaft Seal-Shake | Х | | |
| Pivot Pin O-Ring | Х | | |
| Restrictor Cap-Shake | Х | | |
| Mix Feed Tube O-Ring | Х | | |
| Pump O-Ring | Х | | |
| Mix Inlet Tube O-Ring | Х | | |
| Mix Feed Tube Check Ring | Х | | |
| Air Inlet Fitting Seal | Х | | |
| Pump Drive Shaft O-Ring | X | | |
| Pump Valve Gasket | X | | |
| Brush APackage-HT-SS | | Inspect & Replace if Necessary | Minimum |

Parts List

| DESCRIPTION | PART NUMBER | QTY. | WARR. CLASS | REMARKS | PARTS UPDATE |
|----------------------------------|----------------|------|----------------|---|-----------------|
| ACCUMULATOR AAIR *5472*PRTL | X46916 | 1 | 103 | | |
| + FITTING AAIR ACCUM INLET | X48548 | 1 | 103 | J5010000/UP | 06 |
| + NIPPLE-1/8 MPT CLOSE BRASS | 020519 | 1 | 000 | | |
| + TUBE-VINYL 1/8 ID X 1/16 WALL | 020938-6 | 1 | 000 | BULK UNDER P/N R30301 | |
| + VALVE-SOLENOID-SERVICE | 044125-27S | 1 | 103 | | |
| ACCUMULATOR AGLYCOL (OLD) | X41912 | 1 | 103 | J4019999/PRIOR (SEE TANK-GLYCOL) NLA | 79 |
| ACCUMULATOR-COPPER 2"DIA 10"LG | 047062 | 1 | 103 | REFRIGERANT | |
| ADAPTOR ACASTER | X18915 | 4 | 103 | | |
| AGITATOR A. *HT*20 QT HOPPER | X44797 | 1 | 103 | | |
| + CAP-MAGNET *HT* | 044796 | 1 | 103 | | |
| BEARING-DOOR-FRONT 1.390 OD | 055605 | 1 | 000 | | |
| BEARING-REAR SHELL *NICK.PLATE | 031324 | 1 | 000 | | |
| + GUIDE-DRIP SEAL | 028992 | 1 | 000 | | |
| + NUT-BRASS BEARING | 028991 | 1 | 000 | | |
| + O-RING-1/20D X .070W | 024278 | 2 | 000 | | |
| + WASHER-BEARING LOCK | 012864 | 1 | 000 | | |
| BEATER A7QT-FLUTED BLADE | X50958 | 1 | 103 | REPLACES X42315 USE W/050985 BEATER SHAFT | 113 |
| + BLADE-SCRAPER-FCB-PRESSURE-16" | 041103 | 2 | 000 | | |
| BELT-RD 3/16 GREEN | 062191-4 | 1 | 000 | | |
| BELT-V-4L400 | 002200 | 1 | 000 | | |
| BLADE ASPINNER-ALUMINUM-HT | X41895 | 1 | 103 | | |
| BLOCK-TERMINAL 3P | 039423 | 2 | 103 | | |
| BLOCK-TERMINAL 3P .25 SPADE | 057201 | 1 | 103 | | |
| BLOCK-TERMINAL-PLUG 10P .2 SIP | 040322-005 | 1 | 103 | J14 IB | |
| BLOCK-TERMINAL-PLUG 6P .2 SIP | 040322-002 | 2 | 103 | J5 IB | |
| BLOCK-TERMINAL-PLUG 7P .2 SIP | 040322-003 | 2 | 103 | J7 & J6 IB | |
| BLOCK-TERMINAL-PLUG 8P .2 SIP | 040322-004 | 2 | 103 | J10 IB | |
| BOTTLE ASQUEEZE *5472* | X45080 | 1 | 000 | | |
| O-RING-1/20D X .070W | 024278 | 1 | 000 | | |
| BRUSH APACKAGE-HT | X44127 | 1 | 000 | | |
| CABINET ASYRUP *5472* | X45769 | 1 | 103 | | |
| CABLE-RIBBON-10C-34"L-DIL/DIL | 040040-023 | 1 | 103 | J3 IB TO LED | |
| CABLE-RIBBON-10C-5"L-DIL/DIL | 040040-024 | 1 | 103 | LED TO LED | |

| DESCRIPTION | PART NUMBER | QTY. | WARR. CLASS | REMARKS | PARTS UPDATE |
|----------------------------------|----------------|------|----------------|--|-----------------|
| CABLE-RIBBON-14C-22"L-SIP/SIP | 040040-019 | 1 | 103 | J9UC TO LCD | |
| CABLE-RIBBON-20C-33"L-DIL/DILR | 040040-027 | 1 | 103 | J12 IB TO J2 UC | |
| CABLE-RIBBON-20C-35"L-DIL/DIL | 040040-026 | 1 | 103 | J9 IB TO J7 UC | |
| CABLE-RIBBON-50C-25"L.DIL/DIL | 040040-025 | 1 | 103 | J2 IB TO J10 UC | |
| CABLE-4 COND-#22 SHIELDED | 039309-28 | 1 | 103 | POWER CABLE IB-UC (BULK P/N R6003003) | |
| CAP AVALVE-DRAW-INSULATED | X54704 | 1 | 103 | | |
| CAP-RESTRICTOR | 033107 | 1 | 000 | | |
| CAPACITOR-RUN8UF/400V | 039482 | 1 | 103 | AGITATOR MOTOR | |
| CAPACITOR-RUN 10UF/370V | 033047 | 1 | 103 | SPINNER MOTOR | |
| CAPACITOR-RUN 4UF/440V | 051785 | 1 | 103 | FAN MOTOR & AGITATOR MOTOR | |
| CARD-DAILY CLEAN-HT-SHK-PUMP | 046702 | 1 | 000 | | |
| CASTER-SWV 5/8 STEM 4IN WHEEL | 018794 | 4 | 103 | | |
| CLAMP-HOSE 9/16 CRIMP TYPE | 047344 | 14 | 000 | GLYCOL HOSE | |
| COLLAR-HOLDING | 019481 | 2 | 103 | CUP DISPENSER | |
| + SCREW | 001086 | 2 | 000 | | |
| COMPRESSOR M63B203DBDB | 062274-33 | 1 | 512 | 208-230V 60HZ 3PH - K6050000 & UP - BRISTOL | |
| +GROMMET-COMPRESSOR MOUNTING | 037428 | 4 | 000 | | |
| +SLEEVE-MOUNTING-COMP. | 039924 | 4 | 000 | | |
| COMPRESSOR AH7513Z-AH245RT | 047520- | 1 | 512 | J4048006-K6040000 HP62 (-F = FRENCH BUILT J909000/ UP) | 80 |
| + GROMMET-COMPRESSOR MOUNT-AH | 039923 | 4 | 000 | J4048006/UP HP62 | 80 |
| + SLEEVE-MOUNTING-COMPAH | 039924 | 4 | 000 | J4048006/UP HP62 | 80 |
| COMPRESSOR M51B143DBLA | 036880- | 1 | 512 | J4048005/PRIOR | 80 |
| + GROMMET-COMPRESSOR MOUNTING | 037428 | 4 | 000 | J4048005/PRIOR | 80 |
| + SLEEVE-MOUNTING-COMP. | 039924 | 4 | 000 | J4048005/PRIOR | 80 |
| COMPRESSOR-AIR-230V SERV | 032129SER2 | 1 | 103 | | |
| + CROSS-1/4 FPT | 077339 | 1 | 000 | | |
| + FITTING-1/4MPT X .170BARB STR | 075880 | 1 | 103 | | |
| + GAUGE-PRESSURE 0-60 PSI 1/4MPT | 046933 | 1 | 103 | | |
| + NIPPLE-1/4IPT X 7/8LONG BRASS | 026496 | 1 | 103 | | |
| + SWITCH-PRESSURE-240V, 3HP | 063944-C | 1 | 103 | | |
| + VALVE-CHECK 1/4MP | 020959 | 1 | 103 | | |
| CONDENSER-AC-12LX18HX4.3-5ROW | 019558 | 1 | 103 | | |
| CONTROL-ROHS-LED-4 POSITION | 063930 | 2 | 212 | | |

| DESCRIPTION | PART | QTY. | WARR. | REMARKS | PARTS |
|----------------------------------|------------|------|-------|---|--------|
| | NUMBER | | CLASS | | UPDATE |
| COUPLING ADRIVE-SPINNER | X20329 | 1 | 103 | | |
| PIN-ROLL094D X .562L | 015971 | 1 | 000 | | |
| COUPLING ATORQUE-SHAKE*GOLD* | X54722-GLD | | 103 | REPLACES X52620 | |
| COUPLING-TORQUE-DRIVE TTS | 054723 | 1 | 103 | | |
| COUPLING-TORQUE-LOAD-SQ *TTS | 054724 | _ | 103 | | |
| PIN-COUPLING-TORQUE | 039453 | 4 | 103 | | |
| PIN-STOP-TORQUE COUPLING .79 | 054725 | 4 | 103 | | |
| SCREW-5/16-18X3/8 SOCKET SET | 025376 | 2 | 000 | | |
| SCREW-SHOULDER 8-32X3/16 SLT | 039455 | 4 | 000 | | |
| SPRING-3/80DX3/16IDX1L-GOLD | 052476 | 4 | 103 | | |
| COUPLING-FLEXIBLE W/SCREWS | 020108 | _ | 103 | | |
| COVER AHOPPER INSCOMPLETE | X65369 | _ | 103 | | |
| LABEL-CAUTION-AGITATOR | 045191 | 1 | 000 | | |
| + PIN-RETAINING-HOPPER COVER | 043934 | 4 | 103 | | |
| CUP-DIVIDED SYRUP | 017203 | _ | 000 | | |
| CYLINDER-AIR 1-1/6 BORE X 1 IN | 032999 | 1 | 103 | DRAW HANDLE SHUT OFF | |
| + CAP-AIR CYLINDER *PORTION CTRL | 045975 | 1 | 103 | | |
| + SCREW-8-32 X 1/4 ALLEN SET | 043603 | 1 | 000 | | |
| DECAL-DEC-TAYLOR-PH61 (NEW) | 052280 | 1 | 000 | J8120000/UP - "ON POSITION ON RIGHT SIDE" | 137 |
| DECAL-MAG-CLOSING CHECKLIST | 044309 | 1 | 000 | | |
| DECAL-INST-CLN-DAY-HT-SHK | 045271 | 1 | 000 | | |
| DECAL-INST-CLN-HT-SHK | 045274 | 1 | 000 | | |
| DECAL-SET 4 SYRUP FLAVOR | 021523 | 1 | 000 | | |
| DECAL-SET-SYRUP VALVES | 045521 | 1 | 000 | | |
| DECAL-SYRUP COMPARTMENT | 021571 | 1 | 000 | | |
| DECAL-SYRUP FLAVOR INSTRUCTION | 020997 | 1 | 000 | | |
| DECAL-TROUBLESHOOTING | 038374 | 1 | 000 | | |
| DIAGRAM-WIRING | 044816-33 | 1 | 000 | 208-230V 60HZ 3PH - 3 WIRE | |
| DISPLAY-LIQUID CRYSTAL | X38062-SER | 1 | 103 | | |
| + LENS-DISPLAY | 038221 | 1 | 103 | | |
| + STANDOFF-LENS | 038225 | 4 | 000 | 048901 | |
| + SCREW-2-56 X 1/2 | 038219 | 4 | 000 | | |
| + NUT-HEX | 038220 | 4 | 000 | | |

| DESCRIPTION | PART NUMBER | QTY. | WARR. CLASS | REMARKS | PARTS UPDATE |
|----------------------------------|----------------|------|----------------|---------------------------------|-----------------|
| DOOR A1 SPT-4 FLV-HT | X55724-SER | 1 | 512 | | |
| HANDLE-DRAW VALVE *8663* | 034003 | 1 | 103 | | |
| PIN APIVOT | X22820 | 1 | 103 | | |
| O-RING-5/16 OD X .070W | 016272 | 1 | 000 | | |
| SEAL-SPINNER SHAFT | 036053 | 1 | 000 | | |
| SPINNER *8663* | 034054 | 1 | 103 | | |
| VALVE ADRAW-ALUMINUM *5472 | X42210 | 1 | 103 | | |
| O-RING-1-1/16 OD X.139W | 020571 | 2 | 000 | | |
| DOOR ASYRUP CABINET *5472* | X45325 | 1 | 103 | | |
| + BEARING-SYRUP CAB. DOOR *5472* | 045339 | 2 | 000 | WHITE PLASTIC | |
| + BUSHING-SYRUP CAB. DOOR *5472* | 045340 | 2 | 000 | METAL INSERT | |
| + NUT-10-32-1/2 | 005598 | 2 | 000 | | |
| + PLATE-HINGE *5472*LOWER | 045338 | 1 | 103 | | |
| + PLATE-HINGE *5472*UPPER | 045337 | 1 | 103 | | |
| + SCREW-10-32X3/4 | 033944 | 2 | 000 | | |
| DRYER-FILTER-HP62-3/8 X 1/4S | 048901 | 1 | 000 | | |
| DVD-OPS TRAINING VIDEO *PH61 | 049663-DVD | 1 | 000 | | |
| FASTENER-CLIP 1/4-20 U-TYPE | 045865 | 10 | 000 | | |
| FILTER-CORCOM 6EH1 | 040140-001 | 1 | 103 | | |
| FILTER-INLINE-GLYCOL-40 MICRON | 041670 | 1 | 103 | | |
| + ARMAFLEX-BOOT USE 047490-4.5 | 047490-4.5 | 1 | 000 | | |
| FLUID AHEAT TRANSFER | X39667 | 1 | 000 | | |
| FUSE-15 AMP-IN LINE-NON DELAY | 045293 | 1 | 000 | 045606 HOLDER | |
| GASKET-SYRUP DOOR | 045326 | 1 | 000 | | |
| GEAR A.*REDUCER 4.21:1 SERVICE | 021286-SER | 1 | 212 | | |
| GEAR A.*REDUCER-AGITATOR | 047988 | 1 | 103 | | |
| GUARD-POWER SWITCH | 034830 | 1 | 103 | | |
| GUIDE ADRIP PAN *5472* | X45386 | 1 | 103 | FRONT PANEL-REAR SHELL BEARING | |
| GUIDE ADRIP PAN-MIX PUMP | X48228 | 1 | 103 | REAR PANEL-MIX PUMP J4070000/UP | 84 |
| HEATER AGLYCOL-2500W *H60* | X47331S27G | 1 | 103 | | |
| THERMOSTAT-HI LIMIT OPEN 200 | 035786 | 1 | 103 | | |
| HOLDER ASENSOR-ADJ/15 DEGREE | X54617 | 1 | 103 | REPLACES X38976 | |
| BRACKET ASENSOR | X51465 | 2 | 103 | | |

| DESCRIPTION | PART NUMBER | QTY. | WARR. CLASS | REMARKS | PARTS UPDATE |
|--------------------------------|----------------|------|----------------|----------------------------------|-----------------|
| HOLDER-SENSOR-PYROELECT 15 DEG | 063747 | 1 | 103 | | |
| NUT-5/16-18 SPECIAL HEX NUT | 043072 | 1 | 000 | | |
| PIN-GUIDE-5/16OD X 1-5/16LG | 038980 | 2 | 103 | | |
| SCREW-10-32X9/16 SOCKET SET | 038981 | 1 | 000 | | |
| SCREW-8X3/8 SLTD PAN B SMS | 035647 | 2 | 000 | | |
| SCREW-ADJUSTMENT-5/16-18 | 051574 | - | 000 | | |
| HOLDER-CUP-SHAKE | 046939 | 1 | 103 | | 88 |
| + CLIP-SPRING-CUP HOLDER | 046940 | 2 | 103 | | 88 |
| HOLDER-FUSE-IN LINE-TYPE HLR | 045606 | _ | 103 | 045293 FUSE | |
| HOSE-RUBBER 5/16"ID X 9/16"OD | 047340- | 7 FT | 000 | BULK UNDER R502011 (GLYCOL) | |
| HOUSING AAGITATOR *HT* | X51664 | _ | 103 | | |
| MAGNET AAGITATOR-INNER | X41733 | _ | 103 | | |
| SCREW-8-32 X 3/16 ALLEN SET | 006812 | 2 | 000 | | |
| KIT ABRUSH-HT | X44127 | 1 | 000 | | |
| BRUSH-1/2" DIA | 033059 | _ | 000 | | |
| BRUSH-DOUBLE ENDED-PUMP&FEED T | 013072 | 1 | 000 | | |
| BRUSH-DRAW VALVE 1"ODX2"X17"L | 013073 | _ | 000 | | |
| BRUSH-DRAW VALVE 1-1/2"OD X 3" | 014753 | - | 000 | | |
| BRUSH-END-DOOR-SPOUT-SS-HT | 039719 | 1 | 000 | | |
| BRUSH-MIX PUMP BODY-3"X7"WHITE | 023316 | 1 | 000 | | |
| BRUSH-PUMP SPOUT *MC13* | 054068 | 1 | 000 | | |
| BRUSH-REAR BRG 1IN.DX2IN.LGX14 | 013071 | 1 | 000 | | |
| BRUSH-SET LVB | 050103 | 1 | 000 | Includes 045079 Syrup Port Brush | |
| BRUSH-SYRUP PORT | 045079 | 1 | 000 | | |
| KIT ATUNE UP 5472 SIMPL PUMP | X49463-63 | 1 | 000 | | |
| KIT ADRAW VALVE *SHAKE* | X56200-1 | 1 | 000 | | |
| CAP-RESTRICTOR | 033107 | 1 | 000 | | |
| O-RING-1-1/16 OD X.139W | 020571 | 2 | 000 | | |
| O-RING-5/16 OD X .070W | 016272 | 1 | 000 | | |
| SEAL-SPINNER SHAFT | 036053 | _ | 000 | | |
| KIT APUMP-SIMPLIFIED SS/SH | X56200-10 | 1 | 000 | | |
| GASKET-SIMPLIFIED PUMP VALVE | 053527 | 1 | 000 | | |
| O-RING 1/2 ID X .139W | 048632 | 2 | 000 | | |

| DESCRIPTION | PART NUMBER | QTY. | WARR. CLASS | REMARKS | PARTS UPDATE |
|--------------------------------|----------------|------|----------------|----------------------------------|-----------------|
| O-RING-11/16ODX.103W-RED | 016132 | 2 | 000 | | |
| O-RING-1-3/4 OD X .139W | 008904 | 1 | 000 | | |
| O-RING-2-1/8 OD X .139W-#225 | 020051 | 2 | 000 | | |
| RING-CHECK-FEED-TUBE | 056524 | 1 | 000 | | |
| KIT ADOOR/BARREL*SHAKE*863 | X56200-4 | 1 | 000 | | |
| KIT ABEARING 055605 | X56091 | 1 | 000 | | |
| O-RING-1/20D X .070W | 024278 | 4 | 000 | | |
| O-RING-1-11/16 OD X.139W | 041923 | 1 | 000 | | |
| O-RING-11MM ID X 2MM W GREEN | 053890 | 4 | 000 | | |
| O-RING-6 IN ODX5 3/4 IDX 1/8 | 033493 | 1 | 000 | | |
| SEAL-DRIVE SHAFT | 032560 | 1 | 000 | | |
| KIT ASYRUP VALVE-HOFFMAN | X56200-7 | 1 | 000 | | |
| O-RING-1/2OD X .070W | 024278 | 4 | 000 | | |
| TOOL-O-RING REMOVAL-FREEZER | 048260-WHT | 1 | 000 | | |
| LABEL-1/4 X 1-1/2 LONG-BROWN | 022710 | 1 | 000 | | |
| LABEL-1/4 X 1-1/2 LONG-DK BLUE | 022708 | 1 | 000 | | |
| LABEL-1/4 X 1-1/2 LONG-RED | 022707 | 1 | 000 | | |
| LABEL-1/4 X 1-1/2 LONG-WHITE | 022709 | 1 | 000 | | |
| LABEL-CAUTION-AGITATOR | 045191 | 1 | 000 | | |
| LABEL-CAUTION-GROUND-ENG/SPN | 032164 | 1 | 000 | | |
| LABEL-DOOR-WARN-MOVE PART | 032749 | 1 | 000 | | |
| LABEL-WARN-COVER | 051433 | 9 | 000 | | |
| LINE AAIR 45 DEG BARB | X47043-12 | 4 | 103 | FROM AIR MANIFOLD TO SYRUP TANKS | |
| ELBOW-1/4MPT X 1/4BARB-45 DEG. | 046925 | 4 | 103 | | |
| FERRULE475 ID NP BRASS | 021082 | 8 | 000 | | |
| SOCKET-Q.D. CO2 90DEG 1/4BARB | 021524 | 4 | 103 | | |
| TUBE-NYLOBRADE 1/4ID X 7/16OD | 020568-12 | 4 | 000 | | |
| LINE ASYRUP-TWIN TUBE | X53399-88 | 4 | 103 | | 145 |
| FERRULE462 ID NP BRASS | 053888 | 4 | 000 | | |
| FITTING-SYRUP VALVE | 053397 | 4 | 103 | | |
| O-RING-1/20D X .070W | 024278 | 4 | 000 | | |
| TUBE-TWINNED 84" | 045359 | 4 | 000 | | |
| CLAMP-TWIN TUBE | 052079 | 8 | 000 | | |

| DESCRIPTION | PART | QTY. | WARR. | REMARKS | PARTS |
|-----------------------------------|------------|------|-------|---|----------|
| | NUMBER | | CLASS | | UPDATE |
| LIP-DRIP-NOSE CONE | 036435 | 1 | 000 | | |
| LUBRICANT-TAYLOR HI PERFORMANCE | 048232 | 1 | 000 | | |
| MAN-OPER PH61 | 048119-M | 1 | 000 | J4063652/UP | 82 |
| MANIFOLD AREGULATOR *5472* | X46924 | 1 | 103 | | |
| DECAL-FLAVOR COLOR SET '4' | 022105 | 1 | 000 | | |
| FITTING 1/4 X .170 90 DEGREE | 075946 | 1 | 000 | | |
| GAUGE-PRESSURE 0-60 PSI 1/8MPT | 027875 | 4 | 103 | | |
| NIPPLE-1/4IPT X 7/8LONG BRASS | 026496 | 2 | 000 | | |
| PLUG-1/4MP BRASS | 027747 | 2 | 000 | | |
| REGULATOR-PRESSURE-CO2 | 027744 | 2 | 103 | | |
| VALVE-PRESSURE RELIEF-45# | 047252 | 1 | 103 | J3110000/UP | 92 |
| MANIFOLD-FIVE VALVE-90 DEG. | 046920 | _ | 103 | J3070000 - J6061311 (X50644 UPDATE KIT) | 73 & 107 |
| MANIFOLD-FIVE VALVE | 045787 | 1 | 103 | J2111806 - J3069999 (X50644 UPDATE KIT) | 63 & 73 |
| MANIFOLD-FOUR VALVE | 037780 | 1 | 103 | PRIOR TO J2111806 N/A | 63 |
| VALVE-AIR-3 WAY-24VAC | 045787-1 | 4 | 103 | PRIOR TO J6061311 | |
| VALVE-AIR-3 WAY-12VDC | 045787-2 | 1 | 103 | PRIOR TO J6061311 | |
| MOTOR ASPINNER W/PLUG | X35584SER2 | 1 | 103 | | |
| CONNECTOR-PLUG 3 PIN FEMALE | 022522 | 1 | 103 | | |
| PIN-MALE .084"DIA-MATE-N-LOK | 021624 | 3 | 103 | | |
| +CAP-CYLINDER-AIR-PORTION CTR | 045975 | 1 | 103 | | |
| +CYLINDER-AIR 1-1/6 BORE X 1 | 032999 | 1 | 103 | | |
| MOTOR-1.0 HP | 013102-33 | 1 | 212 | | |
| MOTOR-AGITATOR | 047987-27 | 1 | 103 | | |
| MOTOR-FAN 80 WATT 1550 RPM C | 051744-27 | 1 | 103 | | |
| +CONNECTOR-MATE LOCK 4 CIR-PI | 500534 | 1 | 103 | | |
| +PIN084 OD/14-20 AWG-STRIP | 021624 | 3 | 103 | | |
| +FAN-5 BLADE 12" PUSH 26DEG CCW | 029771 | 1 | 103 | | |
| MOTOR-REDUCER-SERVICE | 044723-27S | 1 | 103 | zH09 | |
| + GEAR-ONLY | 049243-27 | 2 | 103 | zH09 | 93 |
| + MOTOR-ONLY | 049242-27 | 2 | 103 | 2H09 | 93 |
| + SEAL-MOTOR REDUCER-INPUT SHAFT | 048836 | 2 | 000 | | 90 |
| + SEAL-MOTOR REDUCER-OUTPUT SHAFT | 048837 | 2 | 000 | | 90 |
| NUT-STUD *482-5472-8663-8634* | 034034 | 4 | 103 | (HANDSCREW) | |

| DESCRIPTION | PART NUMBER | QTY. | WARR. CLASS | REMARKS | PARTS UPDATE |
|---|----------------|------|----------------|--|-----------------|
| NYLON-SPIRAL WRAP-BLUE-2" | 041582-4 | 2 | 000 | BULK UNDER P/N R40336 | |
| NYLON-SPIRAL WRAP-BROWN-2" | 041582-1 | 2 | 000 | BULK UNDER P/N R40338 | |
| NYLON-SPIRAL WRAP-RED-2" | 041582-2 | 2 | 000 | BULK UNDER P/N R40337 | |
| NYLON-SPIRAL WRAP-WHITE-2" | 041582-3 | 2 | 000 | BULK UNDER P/N R40320 | |
| O-RING SILICONE-RED (SYRUP VALVE FITTING) | 053398-RED | _ | 000 | J9096706/UP (REPLACES 042503-RED SHROUD) | 145/146 |
| O-RING SILICONE-BLU (SYRUP VALVE FITTING) | 053398-BLU | - | 000 | J9096706/UP (REPLACES 042503-BLU SHROUD) | 145/146 |
| O-RING SILICONE-WHT (SYRUP VALVE FITTING) | 053398-WHT | 1 | 000 | J9096706/UP (REPLACES 042503-WHT SHROUD) | 145/146 |
| O-RING SILICONE-BRN (SYRUP VALVE FITTING) | 053398-BRN | _ | 000 | J9096706/UP (REPLACES 042503-BRN SHROUD) | 145/146 |
| OVERLOAD-TI#2BM-KG-16-68 | 042005-34 | - | 103 | MOTOR REDUCER 50 &60 Hz | |
| + NUT-OVERLOAD RESET | 045026 | 1 | 000 | | |
| PAIL-MIX 10 QT. | 013163 | 1 | 000 | | |
| PAN ADRIP *5459* | X28142 | - | 103 | | |
| PAN-DRIP HT | 048204 | 1 | 103 | J4070000/UP MIX PUMP | 84 |
| PANEL AFRONT *PH61* | X55436 | _ | 103 | | |
| PANEL ALOWER SIDE | X24397-SER | - | 103 | LEFT | |
| PANEL-LOWER SIDE R.*5472/PH61 | 034680 | 1 | 103 | RIGHT | |
| PANEL-REAR *5472* | 048203 | - | 103 | | |
| PANEL-SIDE-UPPER-LEFT *5472* | 056012 | 1 | 103 | | |
| PANEL-SIDE-UPPER-RIGHT *5472* | 056013 | 1 | 103 | | |
| PCB ACONTROL *PH61* UVC2 | X52547-SER | 1 | 212 | | 134/135 |
| CHIP-SOFTWARE PH61 CTRL UVC2 | X40881 | 1 | 103 | | |
| PCB AUVC2 | X51169-SER | 1 | 212 | BASEBOARD | |
| PCB AINTERFACE-HT-SH-UK | X53452-SER | - | 212 | | |
| PCB APERSONALITY-HT-SH | X44748-SER | - | 212 | | |
| PCB AHEAT TREAT INTF BASE-UK | X53451-SER | 1 | 212 | | |
| PLATE ADEC-5472* | X45356 | 1 | NNN | | |
| PLUG-Q.D. CO2 1/8 MP | 021077 | 4 | 103 | SYRUP TANK | |
| PLUG-Q.D. LIQ. 3/4-18 FP | 021081 | 4 | 103 | SYRUP TANK | |
| + INSERT-QD PLUG | 021081-1 | 4 | 103 | FOR QD PLUG | |
| + O-RING | 016030 | 4 | 103 | FOR QD PLUG | |
| PLUG-SYRUP HOLE | 026278 | 4 | 000 | | |
| PROBE AMIX LOW-HT | X42077 | 1 | 103 | MIX LOW | |
| + DISC-PROBE *SQ HOLE* | 030965 | _ | 103 | | |

| DESCRIPTION | PART NUMBER | QTY. | WARR. CLASS | REMARKS | PARTS UPDATE |
|----------------------------------|----------------|------|----------------|-------------------------|-----------------|
| + SPACER-PROBE *SQ HOLE* | 9960£0 | _ | 103 | | |
| PROBE AMIX OUT-SQUARE HOLE | X41348 | _ | 103 | MIX OUT | |
| + SPACER-PROBE-SQUARE HOLE-7/8 | 041346 | - | 103 | | |
| + SPACER-PROBE-ROUND HOLE-5/8DIA | 041347 | _ | 103 | | |
| PROBE-THERMISTOR-BARREL-2% TOL | 038061-BLK | - | 103 | BARREL | |
| PROBE-THERMISTOR-HOPPER-2% TOL | 039470-BLK | 2 | 103 | HOPPER | |
| PULLEY-AGT DR-1.910PDX5/16 THD | 036210 | _ | 103 | AGITATOR MOTOR | |
| + SCREW-8-32 X 1/4 ALLEN SET | 043603 | - | 000 | | |
| PULLEY-AW62-5/8 | 007538 | - | 103 | GEAR | |
| PULLEY-AK25-5/8 | 019153 | - | 103 | BEATER MOTOR | |
| PUMP AMIX SIMPLIFIED SHAKE | X57028-14 | _ | 103 | | |
| ADAPTOR-MIX INLET-SHK-BLUE | 054944 | - | 103 | | |
| CAP-VALVE BODY SHAKE | 056873-14 | 1 | 103 | | |
| CYLINDER-PUMP HOPPER SHAKE | 057944 | _ | 103 | | |
| GASKET-SIMPLIFIED PUMP VALVE | 053527 | - | 000 | | |
| O-RING-2-1/8 OD X .139W-#225 | 020051 | 2 | 000 | | |
| PIN ARETAINING | X55450 | - | 103 | | |
| PISTON-PUMP-SIMPLIFIED | 053526 | - | 103 | | |
| PUMP-GLYCOL-1/8NPT-1650 RPM | 041785 | - | 103 | | |
| MOTOR-SERVICE-GLYCOL PUMP | 041785-1 | - | 103 | | |
| PUMP-SERVICE-GLYCOL PUMP | 041785-2 | - | 103 | | |
| MAGNET-GLYCOL PUMP MOTOR | 041785-3 | 1 | 103 | | |
| + BOOT-GLYCOL PUMP | 042131 | _ | 000 | | |
| RELAY-3 POLE-20A-208/240 50/60 | 012725-33 | - | 103 | MAIN COMPRESSOR | |
| RELAY-MTR START TI#4CR-2-645 | 042007-34 | _ | 103 | MOTOR REDUCER 50 & 60Hz | |
| RELAY-SPDT-30 A-240 V | 032607-27 | - | 103 | GLYCOL HEATER | |
| RESTRICTOR-SYRUP | 025816 | 4 | 000 | | |
| SAMPLER-SYRUP | 045031 | 1 | 000 | | |
| SANITZER- KAY-5 125 PCKTS | 041082 | 1 | 000 | | |
| SENSOR AEVC-SHAKE-33" | X42658 | _ | 103 | | |
| SENSOR APYROELECTRIC-24"L | X42656 | 1 | 103 | | |
| SHIELD-PYROELECTRIC SENSOR | 039096 | 1 | 103 | | |
| SHAFT ADRIVE-MIX PUMP-HOPPER | X41947 | 1 | 103 | | |

| DESCRIPTION | PART NUMBER | QTY. | WARR. CLASS | REMARKS | PARTS UPDATE |
|---------------------------------|----------------|------|----------------|----------------------|-----------------|
| CRANK-DRIVE-HOPPER MIX PUMP | 039235 | 1 | 103 | | |
| O-RING 1/2 ID X .139W-206 | 048632 | 2 | 000 | | |
| O-RING-1-3/4 OD X .139W | 008904 | _ | 000 | | |
| SHAFT-DRIVE-MIX PUMP-HOPPER | 041948 | 1 | 103 | | |
| SHAFT-BEATER *7QT FLUTED* | 050985 | 1 | 103 | USE W/ X50958 BEATER | |
| + SEAL-DRIVE SHAFT | 032560 | _ | 000 | | |
| SHELL AINSULATED *5472*HOOD | X45362-SER | _ | 512 | | |
| STUD-FREEZER *8663* | 034035 | 4 | 103 | | |
| +NUT-STUD *482-5472-8663-8634 | 034034 | 4 | 103 | | |
| SHIELD-SPLASH 15"L X 5-13/32"W | 022763 | _ | 103 | | |
| SLEEVE AMIX PUMP *HT*MCD | X44761 | _ | 103 | | |
| + NUT-PUMP SLEEVE *8751*HT* | 036933 | _ | 103 | | |
| SOCKET-Q.D. LIQ90DEG-1/4BARB | 021026 | 4 | 103 | | |
| STARTER-3 PHASE-3 TO 5 AMP | 041950-33J | _ | 103 | | 26 |
| OVERLOAD-THERMAL | 047150-33J | _ | 103 | | 101 |
| SWITCH ADRAW *5472* | X45076-SER | 1 | 103 | | |
| BEARING-SWITCH *482-8663* | 034042 | 1 | 000 | | |
| BEARING-SWITCH *482-8663* | 034043 | 2 | 000 | | |
| BRACKET AACTUATOR *5472 HT* | X41882 | 1 | 103 | | |
| BRACKET ADRAW SWITCH *5472HT | X41879 | 1 | 103 | | |
| E-RING 1/4 | 032190 | 1 | 000 | | |
| INSULATOR-SWITCH 1/64 ARMITE | 029099 | 1 | 000 | | |
| NUT-PUSH ON-1/2DIA. SHAFT | 039735 | 2 | 103 | | |
| ROD ADRAW *5472 HT* | X41880 | 1 | 103 | | |
| SWITCH-LEVER-SPDT-15A-125-250V | 027214 | 1 | 103 | | |
| SWITCH-MEMBRANE-5 POSITION-8"L | 044520 | 2 | 103 | KEYPAD | |
| + PLATE-BACK UP-MEMBRANE SWITCH | 044578 | 2 | 103 | | |
| SWITCH-PRESSURE 440 PSI-SOLDER | 048230 | 1 | 103 | | 105 |
| SWITCH-PRESSURE-240V, 3HP | 063944-C | 1 | 103 | | |
| SWITCH-TOGGLE-DPDT*ON-NONE-ON | 024295 | _ | 103 | | |
| TANK-GLYCOL 1.5QT-PLASTIC | 047314 | _ | 103 | J4020000/UP | 79 |
| CAP-GLYCOL TANK | 047314-1 | 1 | 103 | J4020000/UP | 79 |
| TANK-SYR-4 QT | 045533 | 4 | 103 | | |

| DESCRIPTION | PART | QTY. | WARR. | REMARKS | PARTS |
|---|-----------|--------|-------|--|--------|
| | NOMBER | | CLASS | | UPDAIE |
| COVER-SYRUP TANK W/INLET FITTING | 035759-1 | 4 | 103 | INCLUDED W/TANK | |
| GASKET | 016037 | 4 | 000 | | |
| + DECAL-SYRUP TANK INSTRUCTION | 045533-1 | 4 | 000 | | |
| TIP-NYLON-WHITE | 042747 | 8 | 000 | | |
| TUBE-DIP | 015441-7 | 4 | 103 | | |
| O-RING | 018550 | 4 | 000 | | |
| TEE-ACCESS-5/16 HOSE W/5344COR | 047587 | - | 000 | | |
| TOOL-COAX PUMP-LVB&DRIVE SHAFT | 047919 | 1 | 000 | | |
| TOOL-SEAL INSTALL-REMOVE | 035460 | _ | 000 | | |
| TOOL-SHAFT-DRIVE-PUMP-HOPPER | 057167 | _ | 000 | | |
| TRANS240V PR1/24V SEC 10 VA | 030132-27 | - | 103 | SYRUP CONTROL | |
| TRANSCONT40VA 120/200/240V | 045754 | _ | 103 | INTERFACE BOARD | |
| TRAY-DRIP 14-7/8L X 5-1/8 SGL | 013690 | 1 | 103 | | |
| TRAY-PARTS-BARREL | 044118 | 1 | 000 | | 118 |
| TRAY-PARTS-PUMP-SIMPLIFIED | 056525 | 1 | 000 | | |
| TRIM-REAR CORNER-LEFT | 045516 | 1 | 103 | ГЕЕТ | 123 |
| TRIM-REAR CORNER-RIGHT | 045517 | 1 | 103 | RIGHT | 123 |
| NUTSERT-10-32 | 047597 | 4 | 103 | FOR REAR CORNER TRIM | 123 |
| TRIM ASHELF *5472* | X45334 | 1 | 103 | BELOW SPLASH SHIELD | |
| TUBE AFEED-HOPPER-SHAKE | X56522 | 1 | 103 | | |
| TUBE170 ID X .250 OD | 075885- | 115 ft | 000 | BULK UNDER P/N R40302 | |
| TUBE-VINYL 1/4ID X 1/16WALL | 020941-16 | 7 | 000 | BULK UNDER P/N R30312 | |
| TUBE-VINYL 1/8ID X 1/16 WALL | 020938-17 | 4 | 000 | BULK UNDER P/N R30301 (SYRUP MANIFOLD) | |
| VALVE ASYRUP CONTROL *5472* | X58145 | 1 | 103 | | |
| BRACKET AQEV MOUNT *5472* | X56790 | 1 | 103 | | |
| DECAL-SET-SYRUP VALVES | 045521 | 1 | 000 | | |
| FITTING-ELBOW SYRUP MANIFOLD | 050492 | 7 | 103 | | |
| FITTING-BARB SYRUP MANIFOLD | 050493 | 1 | 103 | | |
| VALVE-SYRUP 5 BLOCK-QEV-TRAP | 056494 | 1 | 103 | | |
| VALVE-ACCESS 1/4FL X 3/8SOLDER (LOW SIDE) | 043232 | 1 | 103 | | |
| VALVE-ACCESS-1/4 MFLX1/4 S-90 (HIGH SIDE) | 047016 | - | 103 | | 80 |
| VALVE-EXP-AUTO-1/4S X1/4 FPT | 046365 | 1 | 103 | | 80 |
| WASHER-PLASTIC PIVOT | 013808 | 2 | 000 | SWING PANEL | |

| DESCRIPTION | PART NUMBER | QTY. | WARR. CLASS | REMARKS | PARTS UPDATE |
|---------------------------------|----------------|------|----------------|---|-----------------|
| WATER COOLED | | | | | |
| ADAPTOR-3/8MP X 1/2BARB-BR | 011021 | 2 | 103 | | |
| BLOWER-100CFM | 012796-27 | 1 | 103 | 208-230V 60HZ 3PH | |
| BRACKET-MOUNTING-WATER VALVE | 038777 | 1 | 103 | | |
| +SCREW-8-32X5/16 PHIL PAN EXT. | 038778 | 2 | 000 | | |
| CONDENSER-W/C-COAX | 047540 | 1 | 103 | | 80 |
| +ELBOW-5/8S X 1/2S SHORT RADIUS | 017303 | 2 | 103 | | |
| +ELBOW-1/20D COPPER X 1/2 HOSE | 034095 | 2 | 103 | | |
| CLAMP-HOSE-ADJ 7/16 X 25/32 | 010031 | 4 | 000 | | |
| GUARD-BLOWER | 022505 | 1 | 103 | | |
| HOSE-RUBBER-1/2" ID X 7/8" OD | R50200 | 4 ft | 000 | | |
| MANIFOLD-1/2S THRU-1/4S OUT-3 | 046688 | 1 | 103 | | |
| SWITCH-PRESSURE 350 PS1-SOLDER | 048231 | 1 | 103 | | 105 |
| SWITCH-PRESSURE-240V, 3HP | 063944-C | 1 | 103 | | |
| VALVE-WATER 3/8 REG/HEAD | 046686 | 1 | 103 | | 80 |
| | | | | | |
| 50Hz | | | | | |
| BLOCK-TERMINAL 7P GREEN | 024156 | 2 | 103 | 220-240V 50HZ 3PH - 200V 50/60HZ 3PH - | |
| BLOCK-TERMINAL 7P GREEN | 024156 | 1 | 103 | 380-415V 50HZ 3N~ (4WIRE) | |
| BLOCK-TERMINAL 4P L1,L2,L3,N | 039424 | 1 | 103 | 380-415V 50HZ 3N~ (4WIRE) | |
| COMPRESSOR M63B203DBDB | 062274-33 | 1 | 512 | 220-240V 50HZ 3PH | |
| COMPRESSOR M63B203DBEB | 062274-58 | 1 | 512 | 380-415V 50HZ 3N~ (4WIRE) | |
| DIAGRAM-WIRING *PH61* | 044816-35 | 1 | NNN | 220-240V 50HZ 3PH | |
| DIAGRAM-WIRING *5472* | 044816-39 | 1 | NNN | 200V 50/60HZ 3PH | |
| DIAGRAM-WIRING *5472*UNIVERSAL | 044816-62 | 1 | NNN | 380-415V 50HZ 3N~ (4WIRE) | |
| DVD-OPS TRAINING VIDEO *PH61* | 049663-DVD | 1 | 000 | | |
| HARNESS-WIRE 5472 COMP. W/GRND | 056889-G | - | Z Z Z | 220-240V 50HZ 3PH - 200V 50/60HZ 3PH - 380-415V 50HZ 3N~ (4WIRE) | |
| HARNESS-WIRE 5472 COND FAN MTR | 056893-G | 1 | NNN | 220-240V 50HZ 3PH - 380-415V 50HZ 3N~ (4WIRE) | |
| HARNESS-WIRE-BTR MTR H60-H63 | 056890-G | ~ | Z Z Z | 220-240V 50HZ 3PH - 200V 50/60HZ 3PH - 380-415V 50HZ 3N~ (4WIRE) | |
| HARNESS-WIRE 5472 AGITATOR MTR | 056891-G | 1 | NNN | 220-240V 50HZ 3PH - 200V 50/60HZ 3PH - 380-415V 50HZ 3N~ (4WIRE) | |

| DESCRIPTION | PART | QTY. | WARR. | REMARKS | PARTS |
|--------------------------------|------------|------|-------|--|--------|
| | NUMBER | | CLASS | | UPDATE |
| HARNESS-WIRE 5472 MIX PUMP GND | 056892-G | 1 | NNN | 220-240V 50HZ 3PH - 200V 50/60HZ 3PH | |
| HARNESS-WIRE 5472 MAIN POWER | 056884-58 | 1 | NNN | 380-415V 50HZ 3N~ (4WIRE) | |
| MOTOR-FAN 100W 220-240V 5 | 047178-34 | 1 | 103 | 220-240V 50HZ 3PH - 380-415V 50HZ 3N~ (4WIRE) | |
| +PIN084 OD/14-20 AWG-STR | 021624 | 4 | 103 | 220-240V 50HZ 3PH - 380-417V 50HZ 3N~(4WIRE) | |
| MOTOR-1.0 HP | 013102-35 | 1 | 212 | 220-240V 50HZ 3PH - 380-415V 50HZ 3N~ (4WIRE) | |
| MOTOR-REDUCER-SERVICE | 044723-34S | 1 | 212 | 220-240V 50HZ 3PH - 380-415V 50HZ 3N~ (4WIRE) | |
| PCB AINTERFACE-HT-SH-UK ROHS | X63963-SER | - | 212 | 220-240V 50HZ 3PH - 200V 50/60HZ 3PH - 380-415V 50HZ 3N~ (4WIRE) | |
| PCB ACONTROL *PH61* UVC2 ROH | X63969-SER | 1 | 212 | 220-240V 50HZ 3PH - 380-415V 50HZ 3N~ (4WIRE) | |
| CONTROL-ROHS-UVC2 | X63927-SER | 1 | 212 | 220-240V 50HZ 3PH | |
| CHIP-SOFTWARE *PH61* CTRL | X40881 | 1 | 103 | 220-240V 50HZ 3PH | |
| PULLEY-AGT DR-1.690PDX5/16 THD | 045717 | 1 | 103 | 220-240V 50HZ 3PH - 380-415V 50HZ 3N~ (4WIRE) | |
| PULLEY-AGT MTR-2.110PDX3/8BORE | 045718 | - | 103 | 220-240V 50HZ 3PH - 380-415V 50HZ 3N~ (4WIRE) | |
| PULLEY-AK30 X 5/8 | 033559 | 1 | 103 | 220-240V 50HZ 3PH - 380-415V 50HZ 3N~ (4WIRE) | |
| STARTER-3 PH 1.4 TO 2.3A | 041950-33G | | 103 | 380-415V 50HZ 3N~ (4WIRE) | |
| | | | | | |
| 50Hz - ROHS | | | | | |
| MANIFOLD AREGULATOR *5472* | X46924-C | - | | 380-415V 50HZ 3N~ (4WIRE) | |
| GAUGE-60PSI-1/8MPT BOTTOM MN | 021029 | 4 | 103 | | |
| MANIFOLD-VECTOR: V-1823-C | 046924-1 | 1 | | | |
| REGULATOR-SERVICE-60 PSI C02 | 046924-2 | 2 | | | |
| PLUG-1/8 NPT-PARKER:VS219P-2 | 065156-5 | 2 | | | |
| VALVE-SOLENOID *ROHS* | 044125-27C | 1 | 103 | 380-415V 50HZ 3N~ (4WIRE) | |

